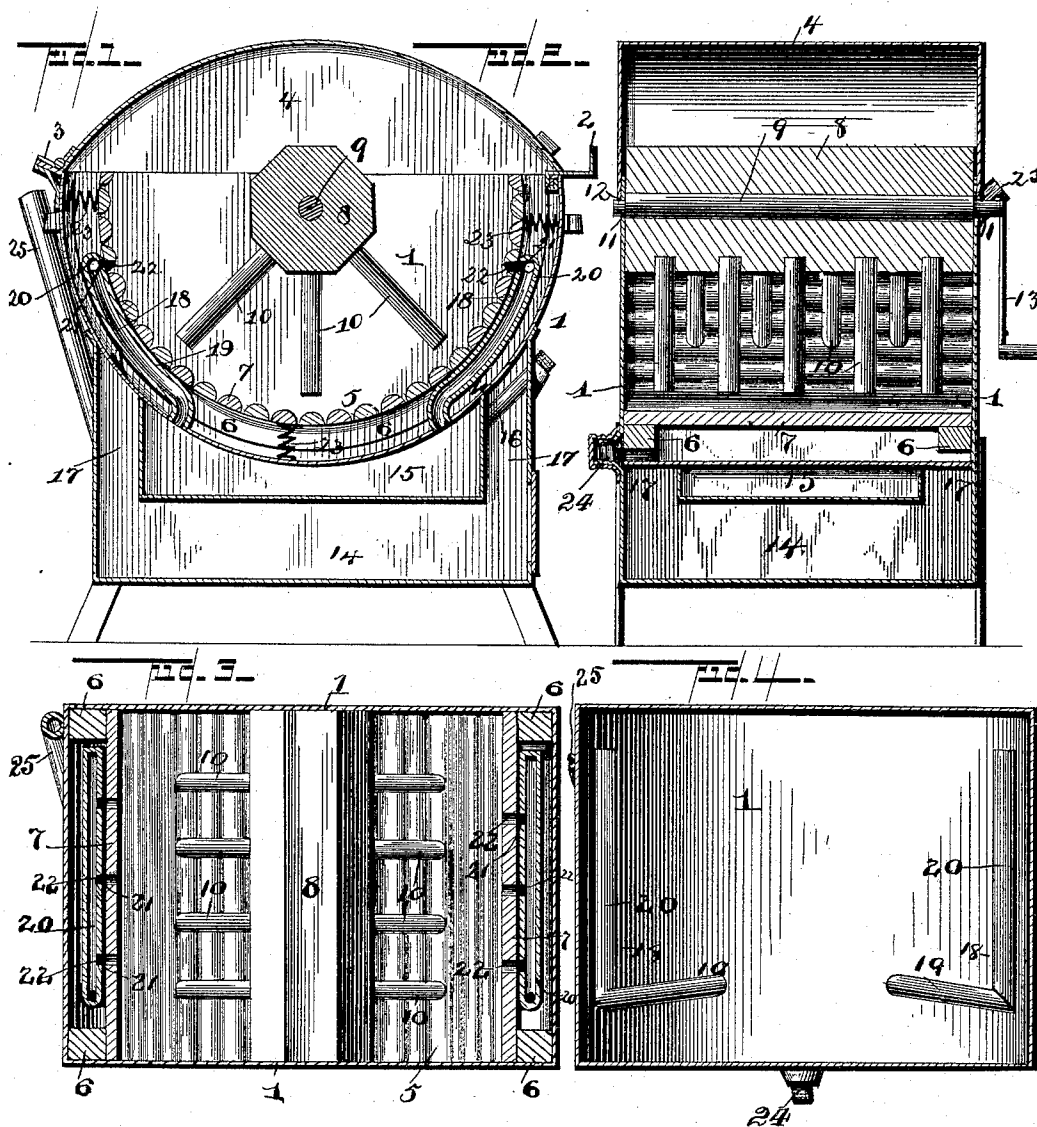


(No Model.)

D. E. & R. C. EDDLEMAN.
WASHING MACHINE.

No. 469,234.

Patented Feb. 23, 1892.



Witnesses

H. E. Seitz
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Inventors:

Dudley E. Eddleman
By their Attorneys, *Richard C. Eddleman*
Cashnow & Co.

UNITED STATES PATENT OFFICE.

DUDLEY E. EDDLEMAN AND RICHARD C. EDDLEMAN, OF WEATHERFORD,
TEXAS.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 469,234, dated February 23, 1892.

Application filed September 22, 1891. Serial No. 406,504. (No model.)

To all whom it may concern:

Be it known that we, DUDLEY E. EDDLEMAN and RICHARD C. EDDLEMAN, citizens of the United States, residing at Weatherford, in the county of Parker and State of Texas, have invented a new and useful Washing-Machine, of which the following is a specification.

The invention relates to improvements in washing-machines.

The object of the present invention is to provide a simple and effective washing-machine in which water may be heated to any desired temperature and sprayed upon the clothes to be washed, and in which the clothes will be thoroughly rubbed without injury to them and at the expenditure of a minimum amount of force on the part of the operator.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the accompanying drawings, Figure 1 is a longitudinal sectional view of a washing-machine constructed in accordance with this invention. Fig. 2 is a transverse sectional view. Fig. 3 is a horizontal sectional view. Fig. 4 is a similar view, the stationary rubber and the cylinder being removed.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 designates an approximately semi-cylindrical washing-machine body constructed of sheet metal or similar material and having the upper edges of its ends formed into flanges 2 and 3, the former adapted to enable a wringer to be readily secured to the machine and the latter forming a stop for a hinged cover 4, which is approximately segmental in longitudinal section and is arched and is adapted to throw the heat and steam which rises to the top back upon the clothes. Arranged within the body and detachably connected thereto is a stationary rubber 5, which is curved and conforms to the bottom of the washing-machine, and consists of curved bars 6 and transverse connecting-slats 7, having their upper faces curved and forming a rubbing-surface. The clothes to be washed are

moved over the rubber 5 by a roll or cylinder 8, mounted on a shaft 9 and provided with a series of pins 10, depending from the roll or cylinder and adapted to receive the clothes. The shaft 9 extends through the roll or cylinder to form journals, or journals 11 may be secured to the ends of the roll or cylinder, thereby dispensing with a shaft. The journals are arranged in bearing-recesses 12 of the body, and one of them is provided with a crank-handle 13, by means of which the roll or cylinder is oscillated.

The washing-machine body is mounted upon a fire-box 14, and has arranged on its bottom a boiler 15, adapted to contain water to be heated and provided with a supply-opening 16. The boiler is of less width than the curved bottom to provide spaces 17 at each side of the boiler, so that the heat from the fire-box may come in direct contact with the bottom of the washing-machine, whereby the water within the washing-machine body is maintained at the proper temperature. The steam from the boiler enters the washing-machine body through discharge-tubes 18, arranged at the ends of the body and interposed between the curved bottom and the stationary rubber, and each consisting of an upwardly-inclined portion 19 and a horizontal portion 20, which is provided with openings 21, through which the steam is discharged. The stationary rubber is provided at its ends with openings 22, which are formed by recessing the slats, and which are arranged opposite the openings 21 of the horizontal portion of the discharge-tube, and the said stationary rubber has sufficient distance or spaces between the slats to enable the steam to be readily sprayed upon the clothes.

The stationary rubber is supported by spiral springs 23, which enable the rubber to give when great pressure is exerted upon the clothes to prevent the latter being injured. The dirt from the clothes sinks through the spaces between the slats of the stationary rubber and falls to the bottom of the machine out of contact with the clothes and in the space formed by the springs which also hold the rubber in position.

The washing-machine body is provided with suitable handles, and has an opening 24,

through which the water may be drawn from the bottom after the operation of washing has been completed.

The smoke from the fire-box passes out through a flue 25, arranged at one end of the washing-machine. The heat may be furnished by any suitable means, such as a gasoline or other liquid hydrocarbon-burner.

What we claim is—

1. The combination, with a washing-machine body, a fire-box supporting the washing-machine body, a boiler arranged on the lower face of the bottom of the washing-machine body and within the fire-box, and a stationary rubber arranged within the washing-machine body, of means for carrying the clothes over the rubber, and a discharge-tube arranged at each end of the washing-machine body and interposed between the same and the stationary rubber and communicating with the boiler, substantially as described.

2. In a washing-machine, the combination of a body, a fire-box supporting the same, a boiler arranged on the lower face of the bottom of the body, a rubber arranged within the body, means for carrying clothes over the rubber, and discharge-tubes arranged at the ends of the body and communicating with the boiler and consisting of an upwardly-extending portion and a horizontal portion provided with openings and adapted to discharge steam over the clothes, substantially as described.

3. The combination of a semi-cylindrical washing-machine body, a fire-box supporting

the same, a boiler arranged on the lower face of the bottom of the body, the circular stationary rubber arranged within the body and conforming to the bottom of the same and provided near its ends with openings 22, and the discharge-tubes communicating with the boiler and arranged at the ends of the body and provided with openings arranged opposite the openings of the rubber, whereby steam is discharged upon the clothes, and means for moving clothes over the rubber, substantially as described.

4. The combination of a semi-cylindrical washing-machine body, a fire-box supporting the same, a boiler arranged on the lower face of the bottom of the body and being narrower than the same and providing spaces whereby heat may come in direct contact with the bottom of the washing-machine body, the circular rubber provided near its ends with a horizontal series of openings, means for carrying clothes over the rubber, and the discharge-tubes arranged at the ends of the body and communicating with the boiler and provided with a horizontal portion having discharge-openings arranged opposite the openings of the rubber, substantially as described.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

DUDLEY E. EDDLEMAN.
RICHARD C. EDDLEMAN.

Witnesses:

L. H. HYDE,
W. R. HOWELL.