

J. BRUDY.
 WASHING MACHINE.
 APPLICATION FILED JUNE 4, 1910.

980,757.

Patented Jan. 3, 1911.

2 SHEETS—SHEET 1.

Fig. 1.

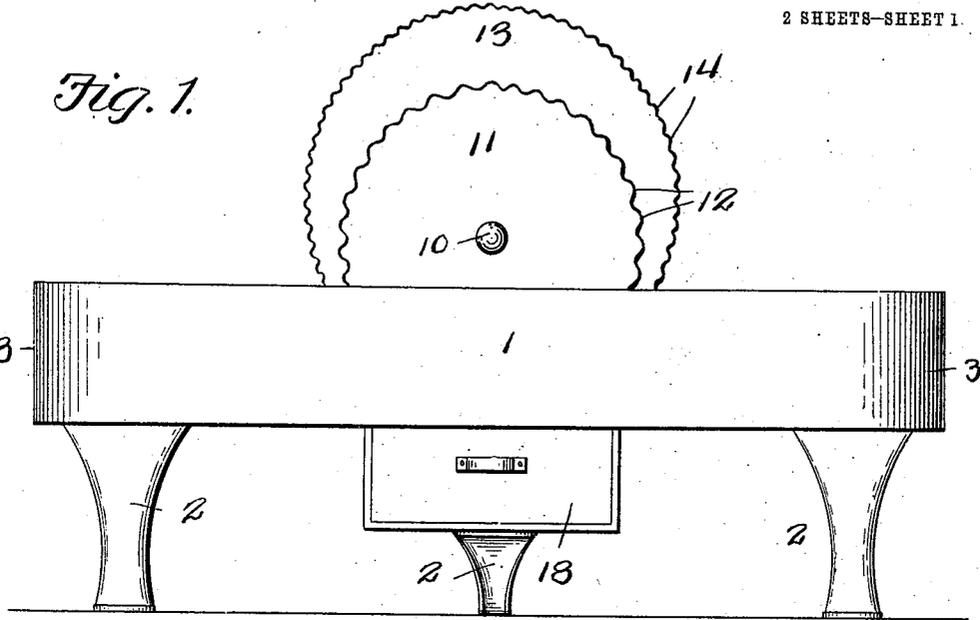
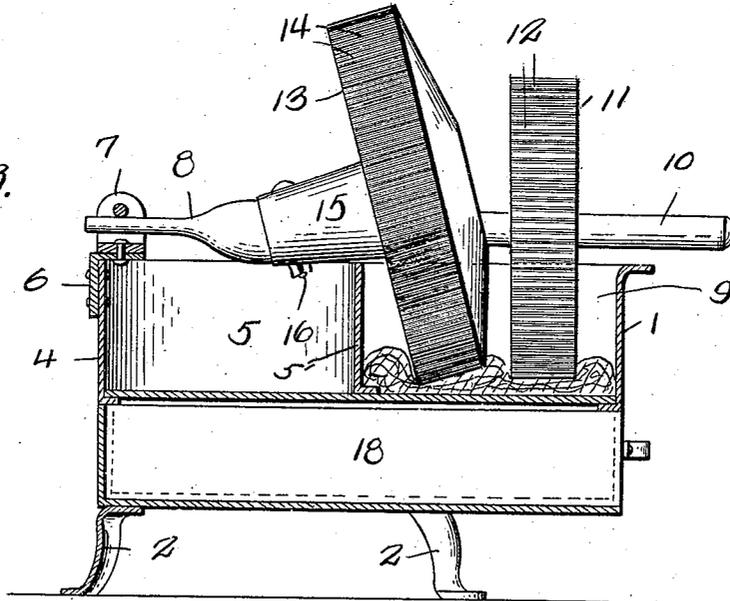


Fig. 3.



Witnesses

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Fig. 3.

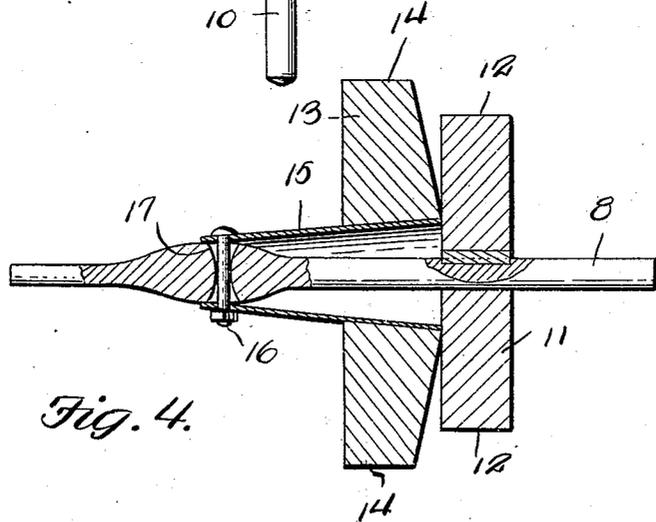
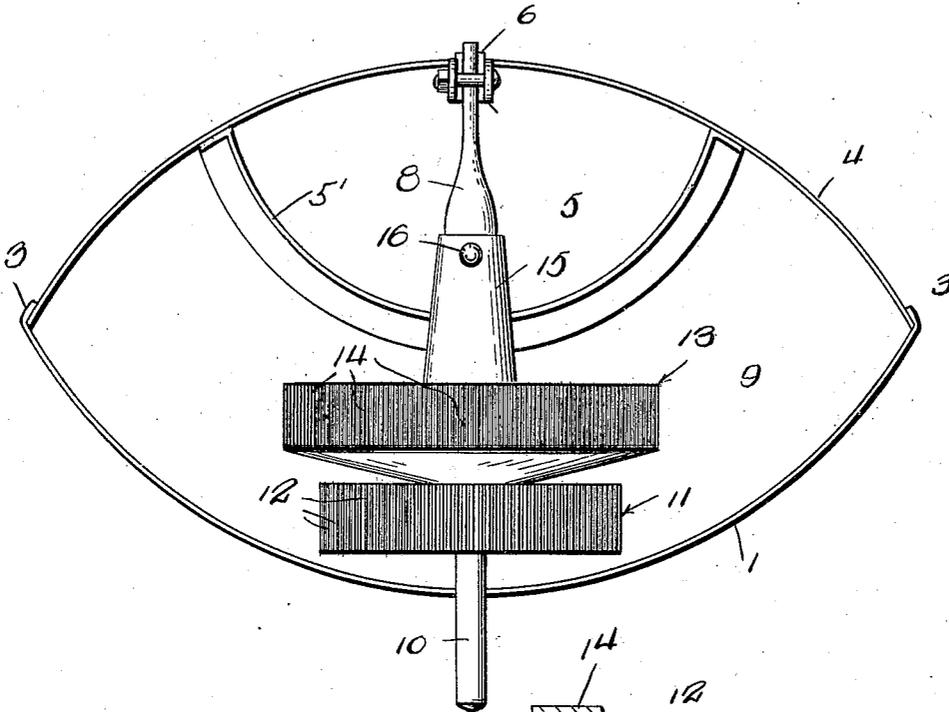


Fig. 4.

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UNITED STATES PATENT OFFICE.

JOHN BRUDY, OF WOLVERINE, MICHIGAN.

WASHING-MACHINE.

980,757.

Specification of Letters Patent.

Patented Jan. 3, 1911.

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To all whom it may concern:

Be it known that I, JOHN BRUDY, a citizen of the United States, residing at Wolverine, in the county of Cheboygan and State of Michigan, have invented new and useful Improvements in Washing-Machines, of which the following is a specification.

This invention relates to washing machines and particularly to that type employing a rotary reciprocating rubber.

The object of the invention is the provision of a machine of this character which may be easily and conveniently operated and by which extremely delicate fabrics may be washed without danger of damaging them.

A still further object of the invention is the provision of a novel and cheaply constructed machine of the character having a rotary reciprocating rubber, which is provided with means for equalizing the inequalities in the thickness of the garments being washed.

Further objects of the invention will appear as the following description is read in connection with the accompanying drawings which form a part of this application and in which:

Figure 1 is a side elevation. Fig. 2 is a top plan view. Fig. 3 is a transverse section. Fig. 4 is a longitudinal section through the rubbers and rubber shaft.

Referring more particularly to the drawings 1 represents a tank or casing which is preferably elliptical in form and which is supported upon the legs 2. The ends 3 of the casing are extended around so as to form with the rear portion 4 of the casing, a receptacle 9 for the reception of the clothes. A segmental partition 5 forms with the wall 4 a compartment 5 for the reception of soap, etc.

Secured to the rear wall of the compartment 5 is a bracket 6 upon which is swiveled a shaft bearing 7 in which the rubber shaft 8 is pivoted. This shaft 8 extends across the receptacle 9 and across the washing receptacle 9 and projects beyond the front of the casing or tank and is provided with an operating handle 10. Secured upon the shaft and adapted to move within the receptacle or chamber 9 is a rubber which comprises a wheel 11 having its face provided with a series of deep corrugations 12

which engage the clothes in the receptacle 55 or chamber 9 and causes the shaft 8 to rotate when said shaft is moved back and forth between the ends of the casing. Immediately adjacent the rubber 11 is a somewhat larger wheel 13 which has finer corrugations 60 14 upon its periphery and whose central shaft receiving aperture is considerably larger than the diameter of the shaft so as to permit the wheel to oscillate upon the shaft and to ride over any inequalities in 65 the garments being washed. In order that the rubber 13 may be rotated with the shaft and still have free oscillation thereon, the shaft has pivotally connected to it a cone 15 which is connected at its opposite end to the 70 rubber 13 as will be seen from an inspection of Fig. 4. The pivotal bolt 16 of the cone passes through a slot 17 as shown in Fig. 4 so that the connection between the cone and the shaft comprises a universal joint and 75 permits the oscillation of the rubber 13 no matter what its position in the receptacle 9.

A suitable casing 18 is secured to the underside of the casing or tank 1 and any suitable heating element may be placed therein 80 to keep the water in the tank heated.

Having thus described the invention, what is claimed as new, is:

1. A washing machine comprising an elliptical tank, a swiveled bracket carried by 85 the tank, a rubber shaft pivotally and rotatably mounted in the bracket, a rubber rigidly carried by the shaft and adapted to operate in the tank, and a second rubber carried by and rotating with the shaft but 90 free to oscillate thereon.

2. A washing machine comprising an elliptical tank, a swiveled bracket mounted thereon, a rubber shaft pivotally and rotatably mounted in the bracket, a rubber rigidly 95 carried by said shaft and adapted to operate in the tank, a second rubber freely mounted on the shaft, and a universal joint connection between said second rubber and the shaft which causes said rubber to rotate 100 with the shaft and permitting free oscillation thereon.

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

JOHN BRUDY.

Witnesses:

J. E. WIGGINS,
HARRY W. SOWTON.