

S. EVENSON.
WASHING MACHINE.
APPLICATION FILED OCT. 23, 1909.

960,866.

Patented June 7, 1910.

2 SHEETS—SHEET 1.

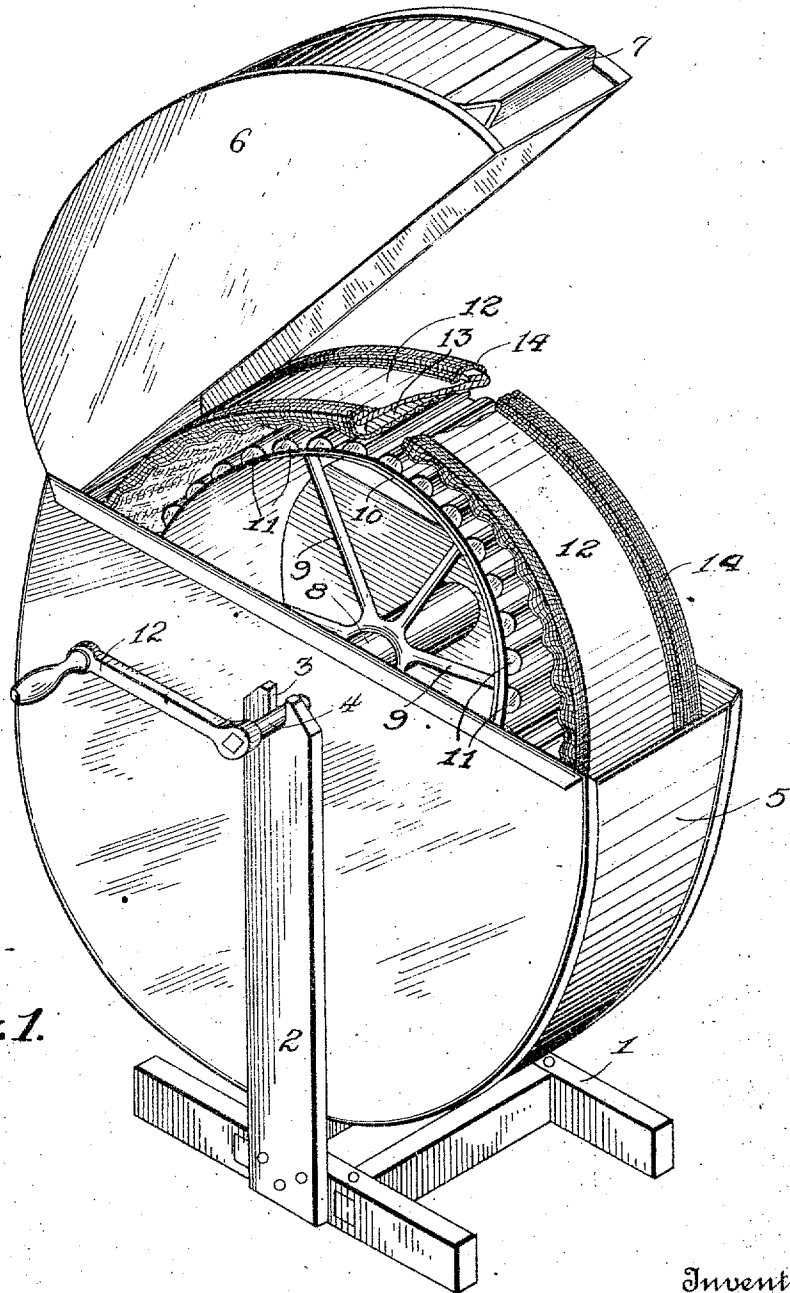


Fig. 1.

Witnesses
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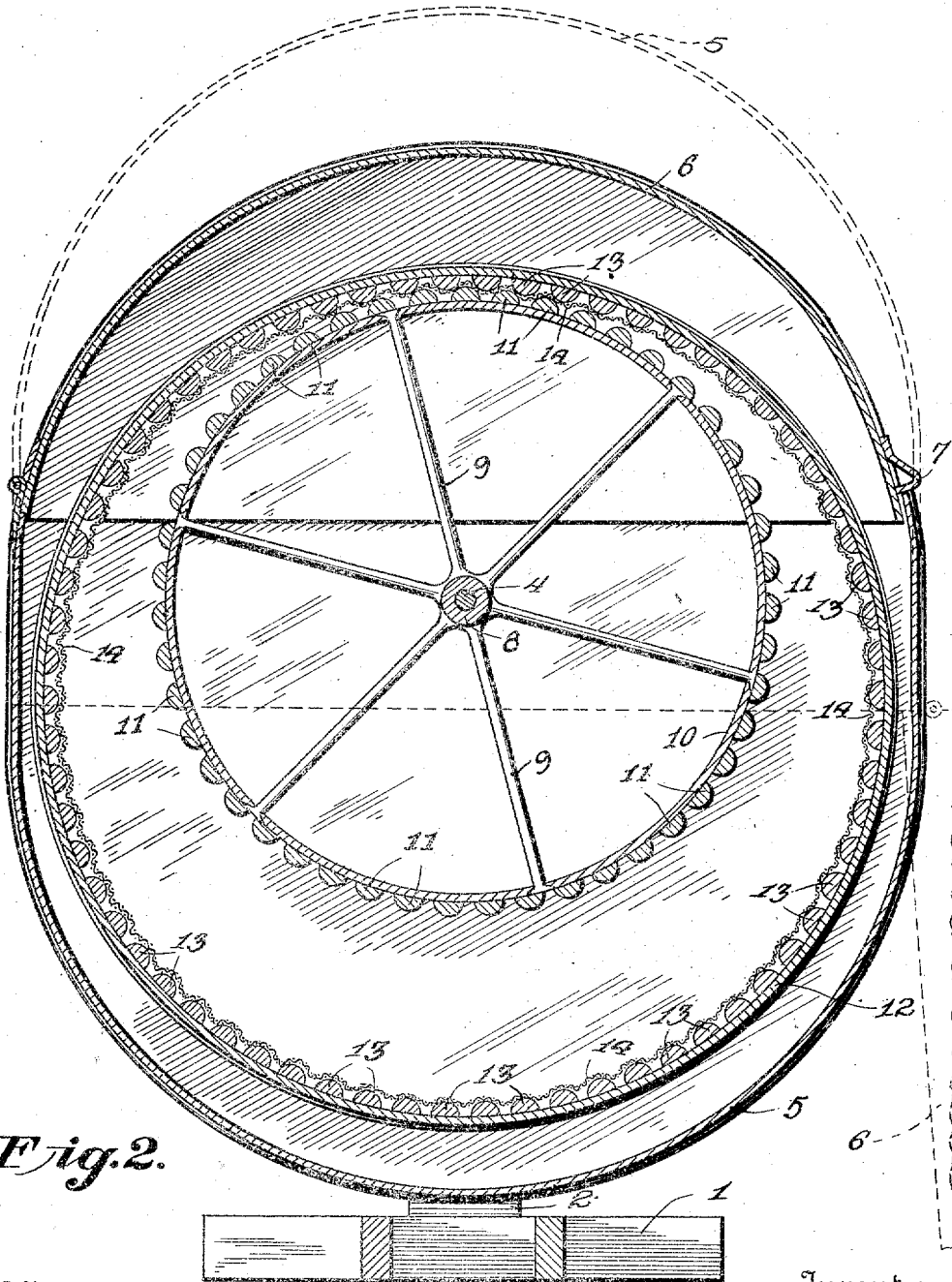


Fig. 2.

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UNITED STATES PATENT OFFICE.

SYVER EVENSON, OF PELICAN RAPIDS, MINNESOTA.

WASHING-MACHINE.

960,866.

Specification of Letters Patent.

Patented June 7, 1910.

Application filed October 23, 1909. Serial No. 524,257.

To all whom it may concern:

Be it known that I, SYVER EVENSON, a citizen of the United States, residing at Pelican Rapids, in the county of Ottertail and State of Minnesota, have invented certain new and useful Improvements in Washing-Machines, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to washing machines, and the principal object thereof is to provide the same with novel means whereby the articles to be washed are held on a rotating drum and submerged in the bottom of a tank and then carried to the upper portion of the tank where they are subjected to a rubbing and squeezing operation to clean the same and also force the water therefrom, the operation of submerging and rubbing and squeezing of the articles being continued by the rotation of said drum until they are thoroughly cleaned.

In carrying out the objects of the invention generally stated above it will be understood, of course, that the essential features of the same are necessarily susceptible of changes in details and structural arrangements, one preferred and practical embodiment of which is shown in the accompanying drawings, wherein:—

Figure 1 is a perspective view of the improved washing machine, the cover thereof being shown open and one of the drums being partly broken away. Fig. 2 is a central vertical sectional view, the cover being closed.

Referring to said drawings by numerals, 1 designates a supporting base which carries a pair of spaced apart vertical standards 2 the upper ends of which are provided with a bearing slot 3 for the ends of the shaft 4 which project through the side of a trough shaped tank 5 which is loosely supported between said standards 2 by said shaft. Said tank has a lid or cover 6 hinged thereto, the free end of said lid or cover being adapted to project into said tank at the forward end thereof and is provided with a guard lip 7 for contact with the said end of the tank to limit the closing movement of said lid or cover, as is shown in Fig. 2.

The shaft 4 projects through the tank 5 and has a drum fast thereon that is composed of a hub 8 from which the spokes 9 radiate, said spokes supporting the flat rim 10, the periphery of which is provided with

regularly spaced apart transverse rubbing bars 11 preferably having their outer surface rounded. Said drum is inclosed by another drum composed of a flat rim 12 the inner surface of which is provided with regularly spaced apart transversely arranged rubbing bars 13 similar to the bars 11 of the first-mentioned drum, said bars 13 being covered by a strip of fabric 14 which extends over the edges of rim 12 and is suitably fastened to the periphery thereof.

As is shown in Fig. 2, the outer drum is suspended from the top of the inner drum so that there is considerable space between said drums at their bottom, which space obviously decreases as the tops of said drums are reached. And it will also be seen that the bars 11 and 13 of said drums interengage similar to teeth of gear wheels so that when said inner drum is rotated by means of the shaft 4, rotary movement of the same will be communicated to the outer drum.

In operation the tank 5 is partly filled with water and the articles to be washed are placed between the fabric 14 and the outer drum. Power is imparted to the shaft 4 by means of the handle 12 causing the two drums to rotate which carries the articles held by the fabric 14 through the water in the tank thence to the upper part of said drums where they are squeezed and rubbed by the interengaged bars 11 and 13, after which they are again submerged, and then rubbed and squeezed, this alternate submerging and rubbing and squeezing being continued until the articles are thoroughly cleaned.

As aforesaid, the tank 5 is loose on the shaft 4 so that it may be tilted to a position the reverse of that shown in Figs. 1 and 2 so that the water therein may be drained out. Said reversing of the tank also permits access to be had to the spaced apart portions of the two drums.

What I claim as my invention is:—

1. A washing machine comprising a base, standards carried thereby, a shaft journaled in the upper end of said standards, a tank loosely mounted on said shaft, a drum fastened on said shaft within said tank, and a second drum surrounding and suspended by said first mentioned drum.

2. A washing machine comprising a tank, a drum rotatable therein and provided with a rubbing surface, and a second drum surrounding said drum and having its inner

surface provided with an article holding covering, said drums being arranged so that their upper portion will be in contact and their lower portion in spaced relation.

- 5 3. A washing machine comprising a tank, a rotatable drum therein provided with an exterior rubbing surface, and a second drum surrounding the first mentioned drum and provided with an internal rubbing and article holding surface, said drums being arranged within said tank so that articles

carried by the surrounding drum will be squeezed between the same and the rotatable drum at the upper portion of the tank, and separated from the rotatable drum at the lower portion of the tank.

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

SYVER EVENSON.

Witnesses:

J. P. WALLACE,

O. P. SETH.