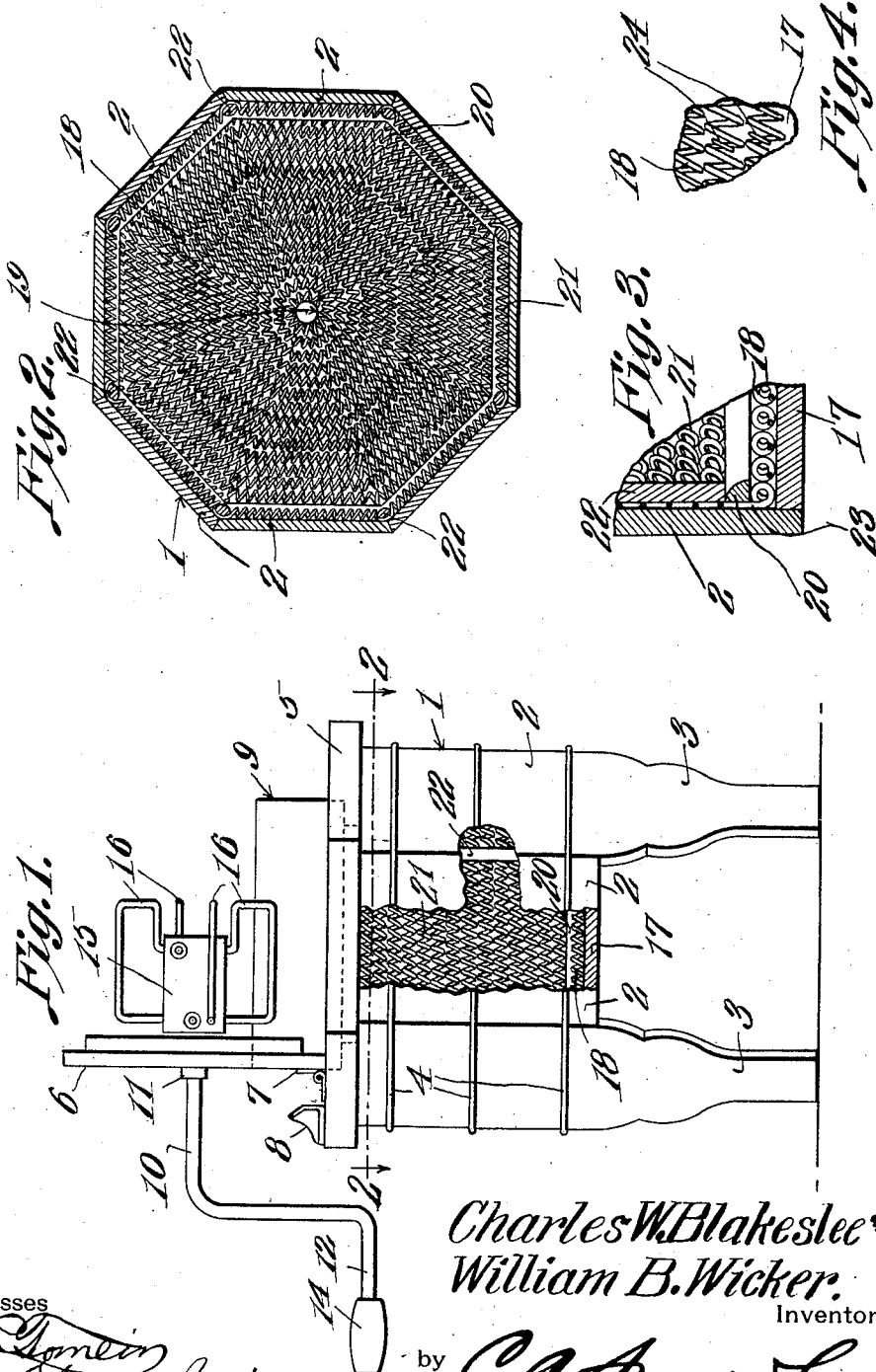


C. W. BLAKESLEE & W. B. WICKER.
 WASHING MACHINE.
 APPLICATION FILED OCT. 8, 1910.

1,058,715.

Patented Apr. 15, 1913.



Witnesses
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UNITED STATES PATENT OFFICE.

CHARLES W. BLAKESLEE AND WILLIAM B. WICKER, OF ENID, OKLAHOMA.

WASHING-MACHINE.

1,058,715.

Specification of Letters Patent.

Patented Apr. 15, 1913.

Application filed October 8, 1910. Serial No. 586,111.

To all whom it may concern:

Be it known that we, CHARLES W. BLAKESLEE and WILLIAM B. WICKER, citizens of the United States, residing at Enid, in the county of Garfield, State of Oklahoma, have invented a new and useful Washing-Machine, of which the following is a specification.

It is the object of this invention to provide a washing machine, having a tub and a cooperating rubbing surface of novel form.

With the above and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of invention herein disclosed can be made within the scope of the claim without departing from the spirit of the invention.

In the drawings, Figure 1 shows the invention in side elevation, parts being broken away; Fig. 2 is a horizontal section on the line 2—2 of Fig. 1; Fig. 3 is a fragmental vertical section, the same being in the nature of a diagrammatic view, showing the means whereby the spiral springs which constitute the rubbing surface of the tub, are held in place upon the tub; and, Fig. 4 is a fragmental plan showing the manner in which the springs may be held in place upon the tub.

In the drawings, the tub is denoted generally by the numeral 1. This tub 1 may be of any desired form. In the present instance it is shown as consisting of a plurality of staves 2, certain of which are prolonged, to form the legs 3 of the tub. The staves 2 may be held in place by means of bands 4. Fixed to the tub 1, is a top 5, having an opening which is closed by a lid 6, hinged at 7 to the top 5. The top 5 of the tub carries a stop bracket 8, adapted to limit the rearward tilting of the lid 6. The top 5 is provided with the usual drain-board 9, positioned adjacent one edge of the opening in which the lid 6 fits, the detail last referred to being common, and requiring but limited delineation and description.

The lid 6 is provided with a bearing 11, in which a shaft 10 is journaled for rotation, the shaft 10 having a crank portion 12, provided with a suitable operating handle 14. The beater consists of a head 15, se-

cured in any desired manner to the inner end of the shaft 10, and arms 16 carried by the head, the arms 16 being preferably, although not necessarily, of the looped, open, form clearly seen in Fig. 1. The bottom 17 of the tub is covered by a spiral spring, 18 disposed in helical form, as denoted by the numeral 19 in Fig. 2. This spring, preferably, although not necessarily, is carried in a single length upon the side walls of the tub, and continued upwardly along the side walls, in superposed coils as shown at 21. A bead 20 is located in the angle defined by the staves 2 and the bottom 17. This bead 20 overhangs the outer coils of that portion of the spring which is disposed upon the bottom 17 of the tub. The spiral spring 18 is carried between the bead 20 and the stave 2, as denoted by the numeral 23 in Fig. 3, and thence is carried upwardly upon the side walls of the tub. The tub 1 is polygonal in form, and preferably octagonal. In the angles, defined by the staves 2, upright posts 22 are located, these posts 22 being extended downwardly into close relation with the bead 20. The superposed coils 21 of the spiral spring, by which the side walls of the tub are lined, are engaged between these posts 22 and the staves 2 as seen clearly in Figs. 2 and 3. The spiral springs which are located upon the bottom and upon the side walls of the tub furnish an effective rubbing surface.

When the beater 15—16 is rotated within the tub 1, the clothes will be rubbed upon the portion 18 of the spring which is located upon the bottom 17, and upon the coils 21 which are positioned upon the side walls of the tub. Owing to the polygonal outline of the tub 1, the efficiency of the superposed coils 21 will be increased, the clothes being forced into the angles between the staves 2, and swept out of these angles, as the beater rotates.

The spiral spring may be secured to the staves 2 and to the bottom 17 in any desired manner. For instance, as shown in Fig. 4, the spring may be stapled in place, as shown at 24. In order that Fig. 2 of the drawings may not be confused, no specific means for securing the springs in place, is shown in the said figure.

The entire inner surface of the tub presents a rubbing surface of unusual efficiency, the springs, however, yielding sufficiently, so that the garments, although re-

ceiving a thorough rubbing, will not be likely to be torn in the rubbing operation.

Having thus described the invention what is claimed is:—

- 5 A washing machine comprising a tub having its bottom covered by a spiral spring disposed in helical form, the side walls of the tub being covered by a spiral spring disposed thereagainst in a plurality of super-
10 posed coils, the coils of the respective springs being in close and intimate contact to pre-

sent continuous rubbing surfaces; and a beater journaled for rotation within the tub.

In testimony that we claim the foregoing as our own, we have hereto affixed our sig- 15
natures in the presence of two witnesses.

CHARLES W. BLAKESLEE.
WILLIAM B. WICKER.

Witnesses:

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