

F. L. Bailey,

Washing Machine. Patented Feb. 15. 1870.

No. 99747.

Fig. 1.



Fig. 3.

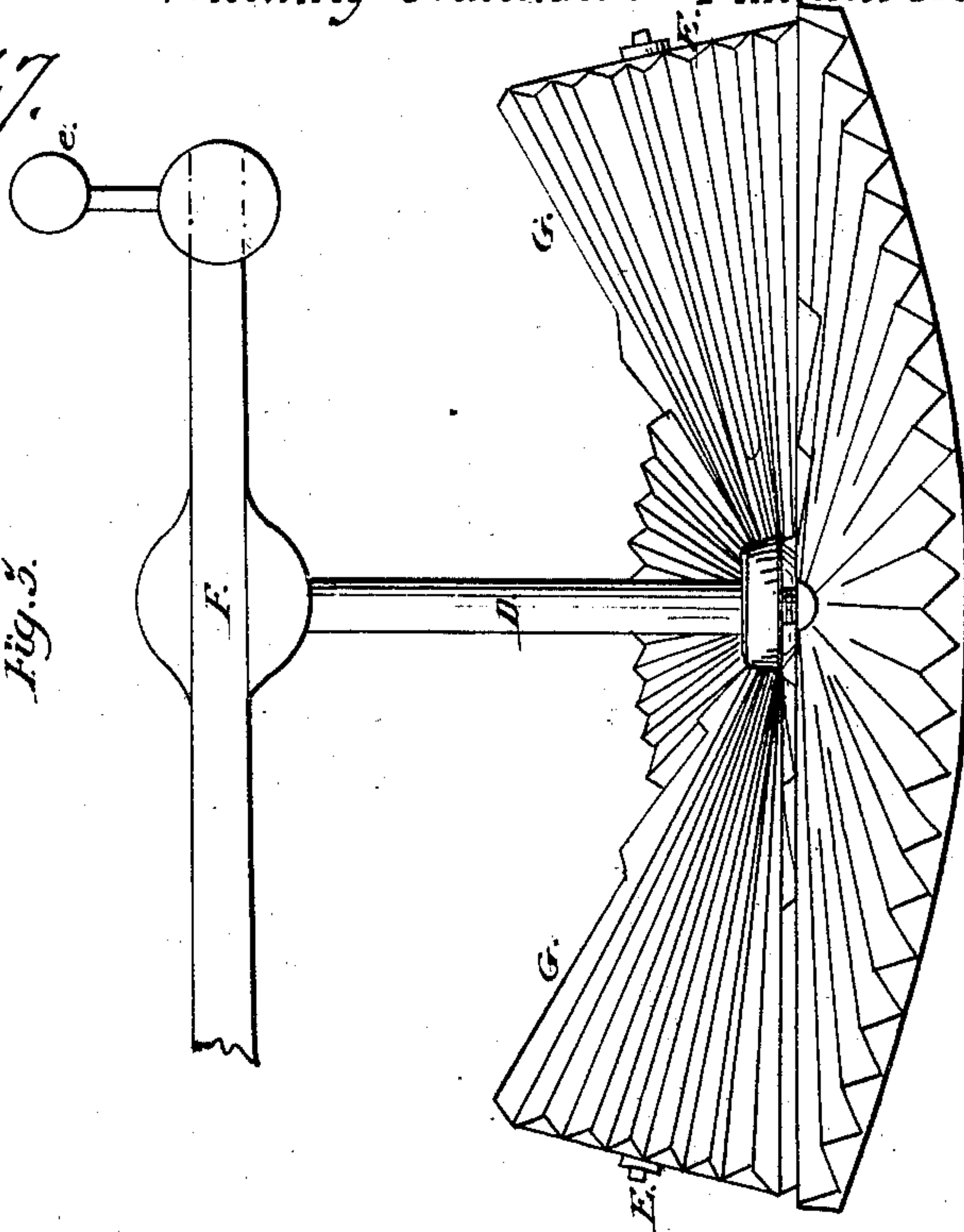
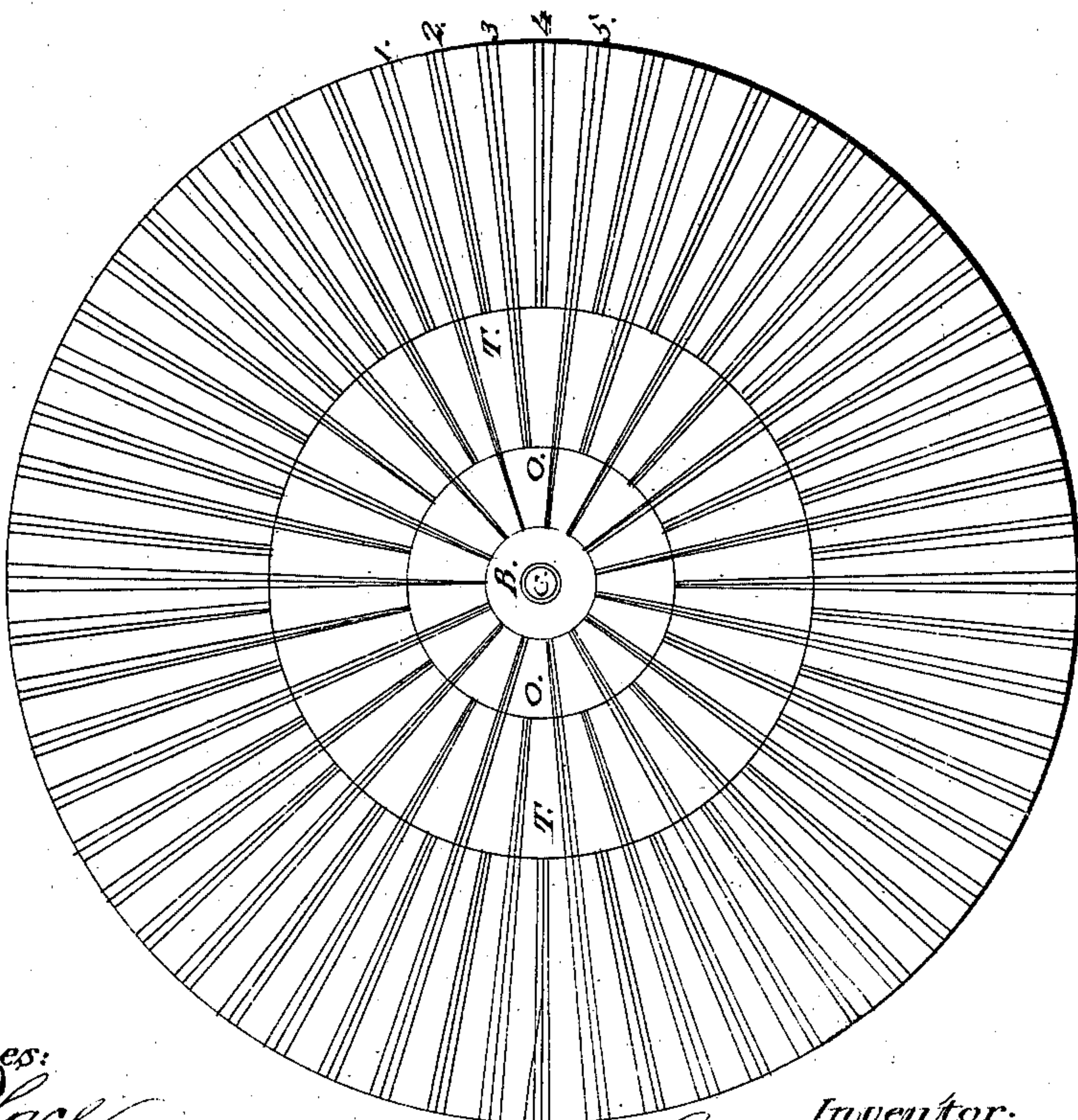


Fig. 2.



Witnesses:

D. W. Place
Jacob Kothenberg

Inventor:

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United States Patent Office.

FORTUNE L. BAILEY, OF FREEPORT, INDIANA.

Letters Patent No. 99,747, dated February 15, 1870.

IMPROVED WASHING-MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, FORTUNE L. BAILEY, of Freeport, in the county of Shelby, in the State of Indiana, have invented a new and improved Washing-Machine; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The nature of my invention consists in providing the ordinary washing-tub with a false bottom, which is irregularly corrugated, and on this bottom plays irregularly corrugated, rotating, and revolving cones, connected with a tubular shaft by arms, on which they rotate and revolve.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I provide for the ordinary washing-tub lugs A A A, which are secured to the inside of the tub, by means of screws, nails, or otherwise, at any height to give the amount of water desired. On these lugs rests the false bottom B, without any additional fastening, and can be put in or taken out at will.

The false bottom B is made to fit any desired size of tub, and is irregularly corrugated, as shown in Figure 2.

The cog or rib number 1 runs from circumference to the center, cog number 2 runs from the circumference to the line at T, cog number 3 runs from circumference to the line at O, and cog number 4 runs from circumference to the line at T, whilst cog number 5 runs from circumference to the center, as cog number 1, and so on in this manner until there is a circle with a variation of size of cogs to suit the size of false bottom used so to keep the cogs or ribs from being too fine at the inner ends or too coarse at the outer ends, as they would be if they all run to the center of the false bottom B.

In the center of the false bottom B is a post, C, which is secured to the false bottom B by means of a screw or other device, and extending up to about the height of the tub. This post is the center of action for the cones G G, and keeps them to their proper place.

The false bottom B can be perforated so as to allow the dirt to settle below as soon as it is freed from the clothes.

In using false bottoms, as described, the work is done in less time and more evenly than when the cogs all run to the center and the false bottom is flat on the tub-bottom.

The tubular shaft D is made of suitable length, say ten or twelve inches long, with as many arms E E as desired, substantially secured to the lower end of the shaft D, and of suitable length to suit the cones and bottom.

On the upper end of the tubular shaft D is secured the crank or handle F, by which the machine is worked.

The cavity in the shaft D is of sufficient size to pass freely down over the post C in the false bottom B.

The post C is the center of action on which the tubular shaft D rotates. The cones G G, when hung upon the arms E E of this tubular shaft D, are allowed to rotate and revolve freely around the tub.

The cones G G are secured on the arms E E of the tubular shaft D by means of screw-taps or taps riveted on the outer ends of the arms E E.

The irregular corrugated cones or rollers G G are made to match with the irregular corrugated false bottom B, as shown in fig. 2 of the accompanying drawings, the cogs on the cones G G matching the valleys of the false bottom B, with exception that the cogs on the cones are made slightly narrower or broader, so as to cause a slight rub on the cones as the cones pass over them, which facilitates the work very much.

Washing-machines, as above described, may be made of wood, metal, or any other suitable material. When made of metal, they are thoroughly galvanized, so as not to rust.

When the machine is completed and ready for use, the false bottom B is placed in the tub and rests upon the lugs A A; then fill the tub with water, until the board B is covered about two inches; then spread the clothes in on the bottom B; then place the cones in the tub. The tubular shaft D passes down over the post C, the cones G G resting upon the clothes to be washed. Then, by a rotary or backward and forward motion of the handle, the work is performed.

What I claim as my improvement in a washing-machine is—

The construction and combination of the false bottom B and the cones G G with irregular corrugations, as at 1, 2, 3, 4, and 5, tubular shaft D, lever F, handle e, and device to connect cones and shaft and attaching lug A, as shown and described.

FORTUNE L. BAILEY.

Witnesses:

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