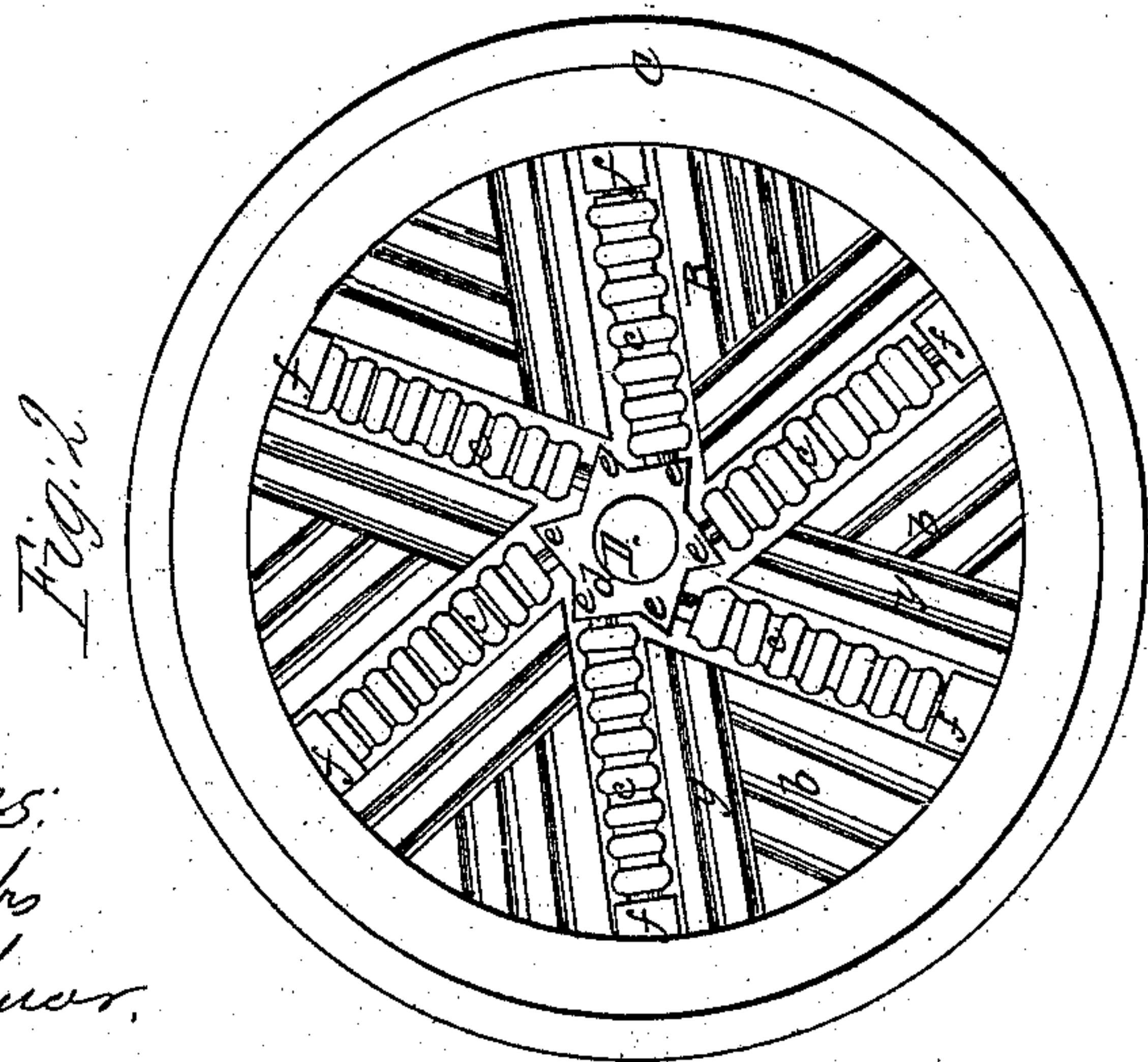
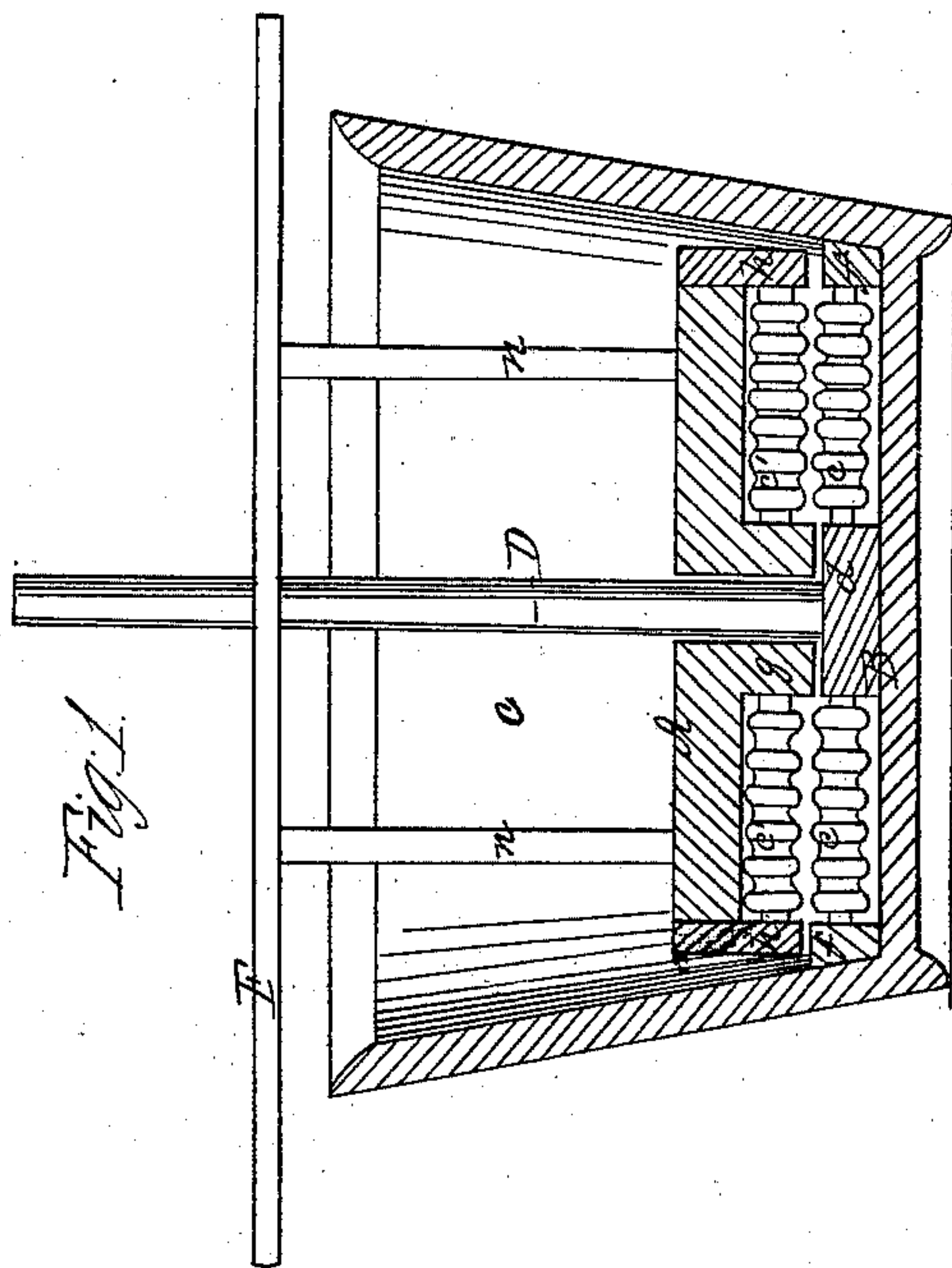


J. M. Tolley,
Washing Machine,
N^o 32,214. *Patented Apr. 30, 1861.*



Witnesses:
J. M. Tolley
R. S. Shaver.

Inventor:
Jas M. Tolley
per Munn & B
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UNITED STATES PATENT OFFICE.

JAMES M. TOLLEY, OF BIG LICK, VIRGINIA.

IMPROVED WASHING-MACHINE.

Specification forming part of Letters Patent No. 32,214, dated April 30, 1861.

To all whom it may concern:

Be it known that I, JAMES M. TOLLEY, of Big Lick, in the county of Roanoke and State of Virginia, have invented a new and useful Improvement in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a vertical central section of my invention. Fig. 2 is a plan or top view of the tub, the movable disk being removed.

Similar letters of reference in both views represent like parts.

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

I use the common round tub C. In the center of the bottom I fix a stem D, which has a hub *d* at the lower end of sufficient thickness vertically to receive the journals of the rollers *c*. This hub *d* is nearly star-shaped, and the points *e* admit of the hanging of the inner end of the rollers *c* eccentrically to the stem D—that is, to one side of a direct line from the center of the blocks *f* to the center of the hub *d*. The outer end of said rollers turns in the blocks *f*, which are fixed to the tub by screws or otherwise.

The hub *g* of the disk A is made the same shape and for a similar purpose as the hub *d*, but with an opening for the stem D to pass through its center.

The rollers *c'* of the upper disk A are supported by and turn in the hub *g* and the hangers *h*, said hangers and hub being rigidly fixed to the disk A.

The triangular spaces between the rollers *c* are each provided with two ribs *y*, running parallel with the roller next to them, and three ordinates *b*, running parallel with the next roller. These ribs may be made separate and nailed to disks A and B equidistant from each other. The hub *g* rests on hub *d*, thus preventing the rollers *c'* from coming in contact with the rollers *c*.

The hand-lever F is connected with the disk A by means of the standard *n*. The stem D passes through the lever F and forms its axis.

The rotating board or disk A is lifted off, when the clothes and water may be put into the tub C, after which it is replaced, when it is ready for operation, which is the same in this as in other machines of a similar construction.

What I claim as new, and desire to secure by Letters Patent, is—

The combination of the two sets of rollers *c c'* with each other and with the disks A B, when the rollers upon the disk A are arranged to cross those of the disk B, all in the manner herein shown and described.

JAMES M. TOLLEY.

Witnesses:

JOHN A. SANNS,
WM. H. DENNIS.