

J. W. MELICK.
Washing-Machine.

No. 164,018.

Patented June 1, 1875.

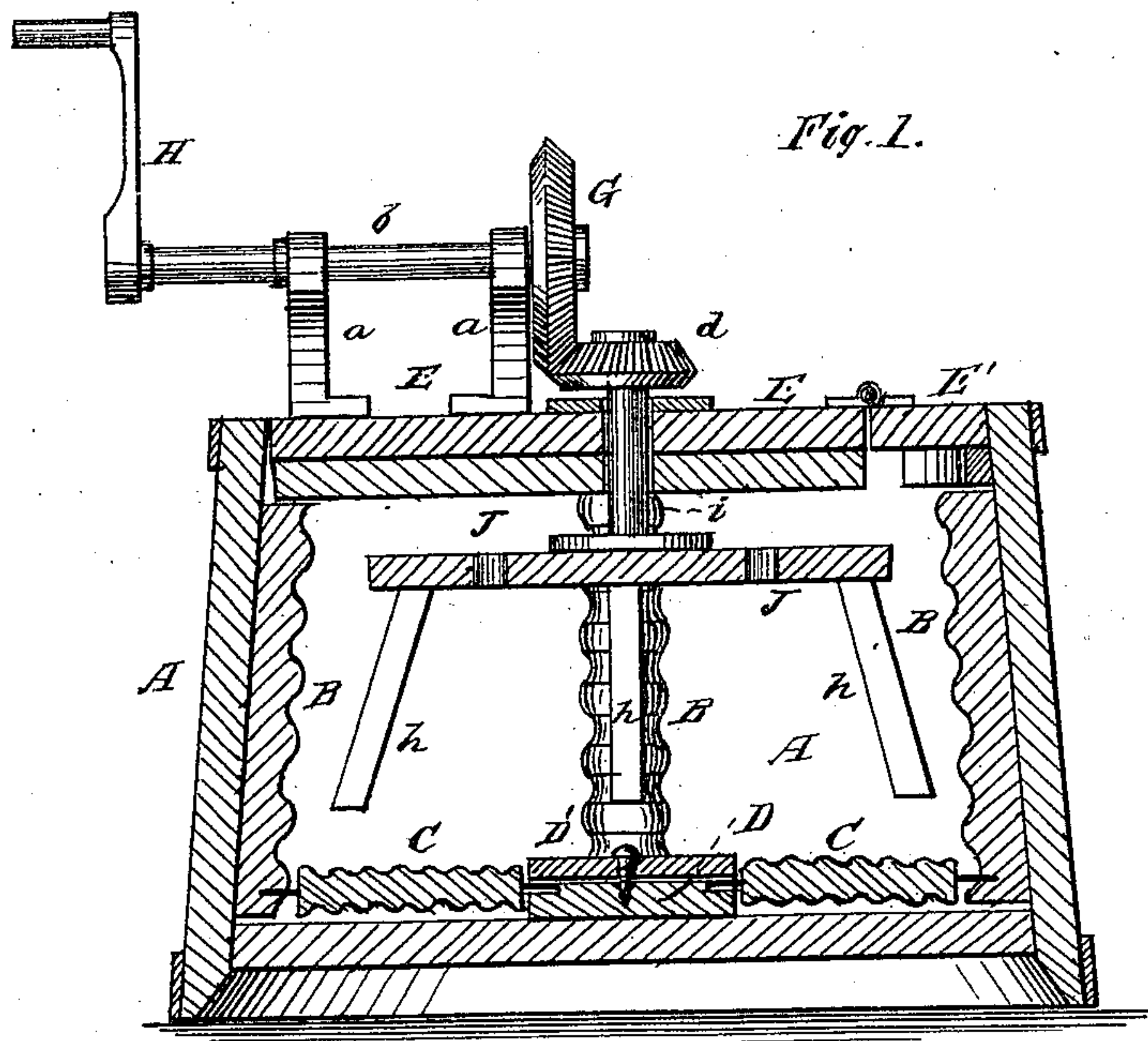
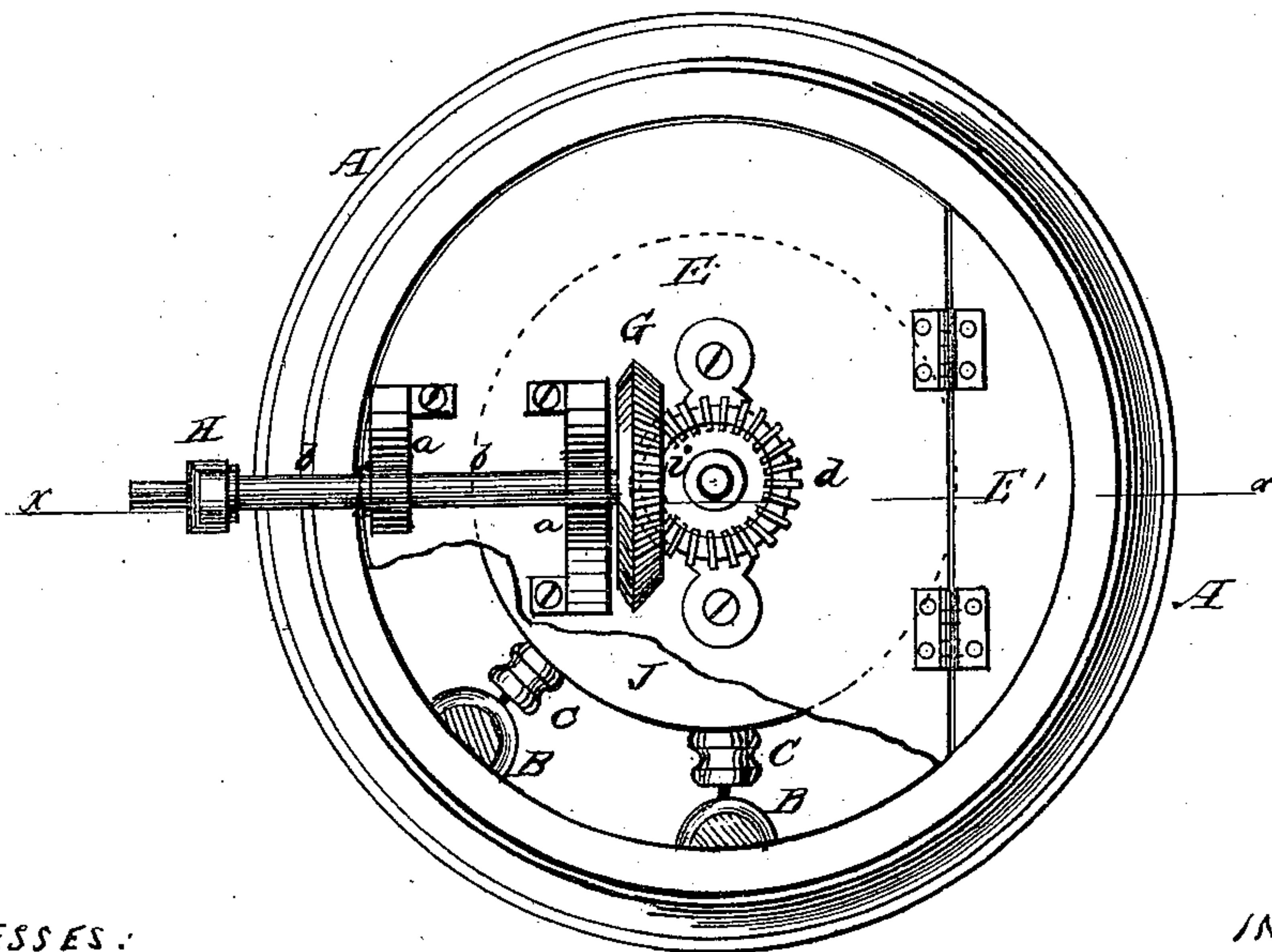


Fig. 2.



WITNESSES:

P. C. Dietrich
Frederick Scher

INVENTOR

J. W. Melick

per. J. H. Alexander
ATTORNEY.

UNITED STATES PATENT OFFICE.

JAMES W. MELICK, OF WHITE COTTAGE, OHIO.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **164,018**, dated June 1, 1875; application filed March 27, 1874.

To all whom it may concern:

Be it known that I, J. W. MELICK, of White Cottage, in the county of Muskingum and State of Ohio, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

The nature of my invention consists in the construction and arrangement of a washing-machine, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a central vertical section, and Fig. 2 a plan view, partly in section.

A represents a circular tub of any suitable dimensions, the sides of which are slightly inclined inward from the bottom to the top, making the top of smaller diameter than the bottom. On the sides, within the tub A, at regular intervals, are secured half-round ribs B B, which are corrugated transversely, as shown. In the lower end of each rib B is inserted the outer journal of a roller, C, the inner journal of which is placed between two disks, D D', secured to the bottom of the tub in the center. The upper one, D', of these disks is removable independent of the bottom disk D, so that the rollers can be removed easily when necessary. The rollers C C are corrugated circumferentially, as shown. Any number of these rollers and ribs may be used to form a wash-board surface, both on the bottom and sides of the tub, the rollers, however, revolving in their bearings. E repre-

sents the lid of the tub, hinged to a strip, E', which is fastened to one side of the tub. On top of the lid E are two standards, a a, in which a shaft, b, has its bearings, the outer end of said shaft being provided with a crank, H, for revolving the shaft, and the inner end provided with a miter or beveled cog-wheel, G. This wheel gears with a pinion, d, of similar shape on the upper end of a vertical shaft, i, which passes down through the center of the lid E, and has upon its lower end a disk, J, said disk being only a short distance below the lid. In the disk J are placed one or more series of arms, h h, which extend downward and outward, their inclination being about the same angle as that of the sides of the tub. These arms, when the disk is revolved by the gearing above, rub the clothes against the ribs B B and collars C C, whereby the clothes are speedily and effectually cleansed from all dirt.

I am well aware that washing-machines have been constructed with corrugated rollers, and used with various devices on a revolving shaft. I do not therefore lay, broadly, any claim to such an arrangement.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The tub A, provided with corrugated ribs B B, in combination with rollers C C and revolving disk J, provided with flaring arms h h, as described.

In testimony that I claim the foregoing as my own invention, I affix my signature in presence of two witnesses.

JAMES W. MELICK.

Witnesses:

FRANK H. SOUTHARD,
WILLIAM C. BLACKSON.