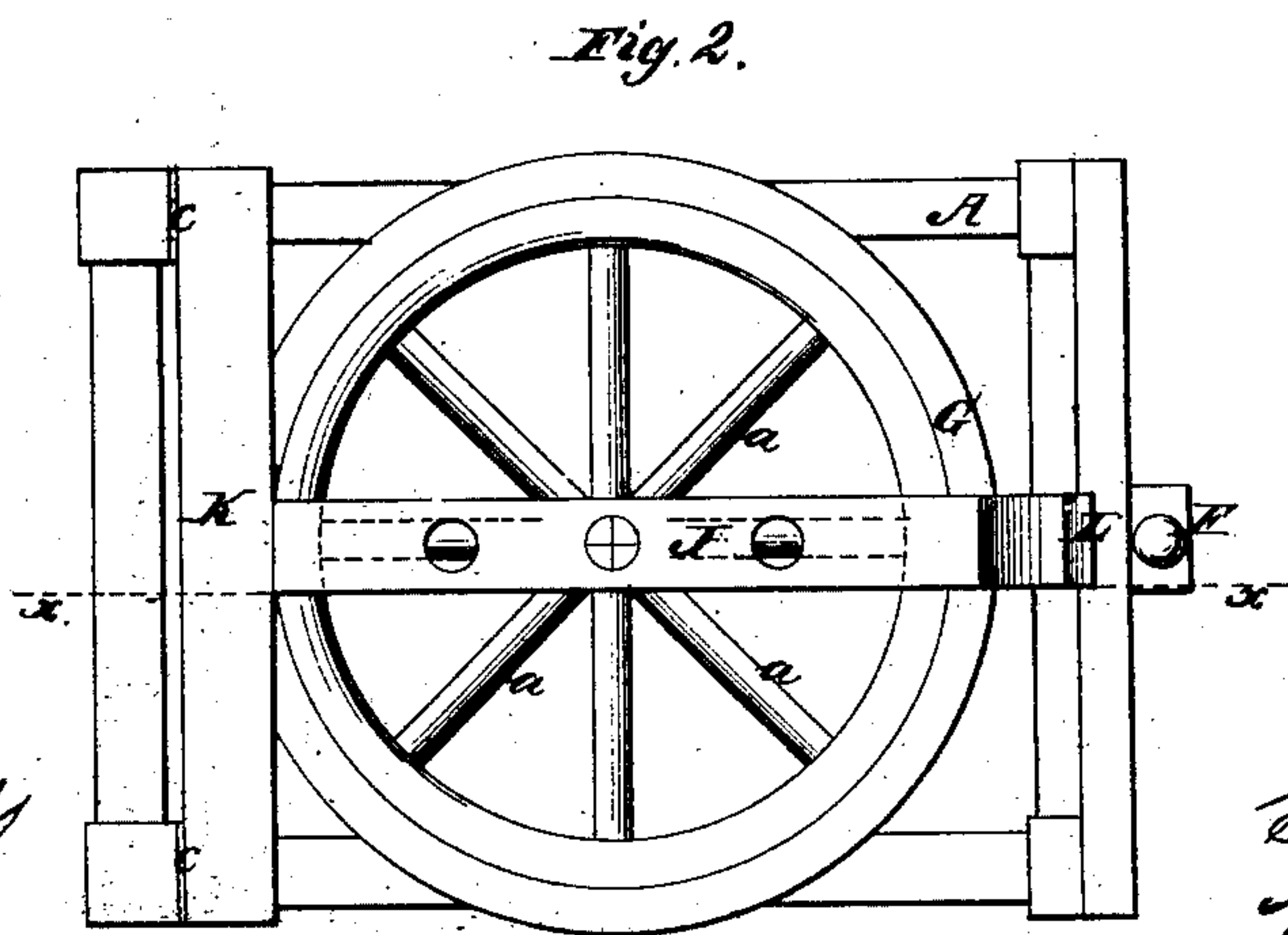
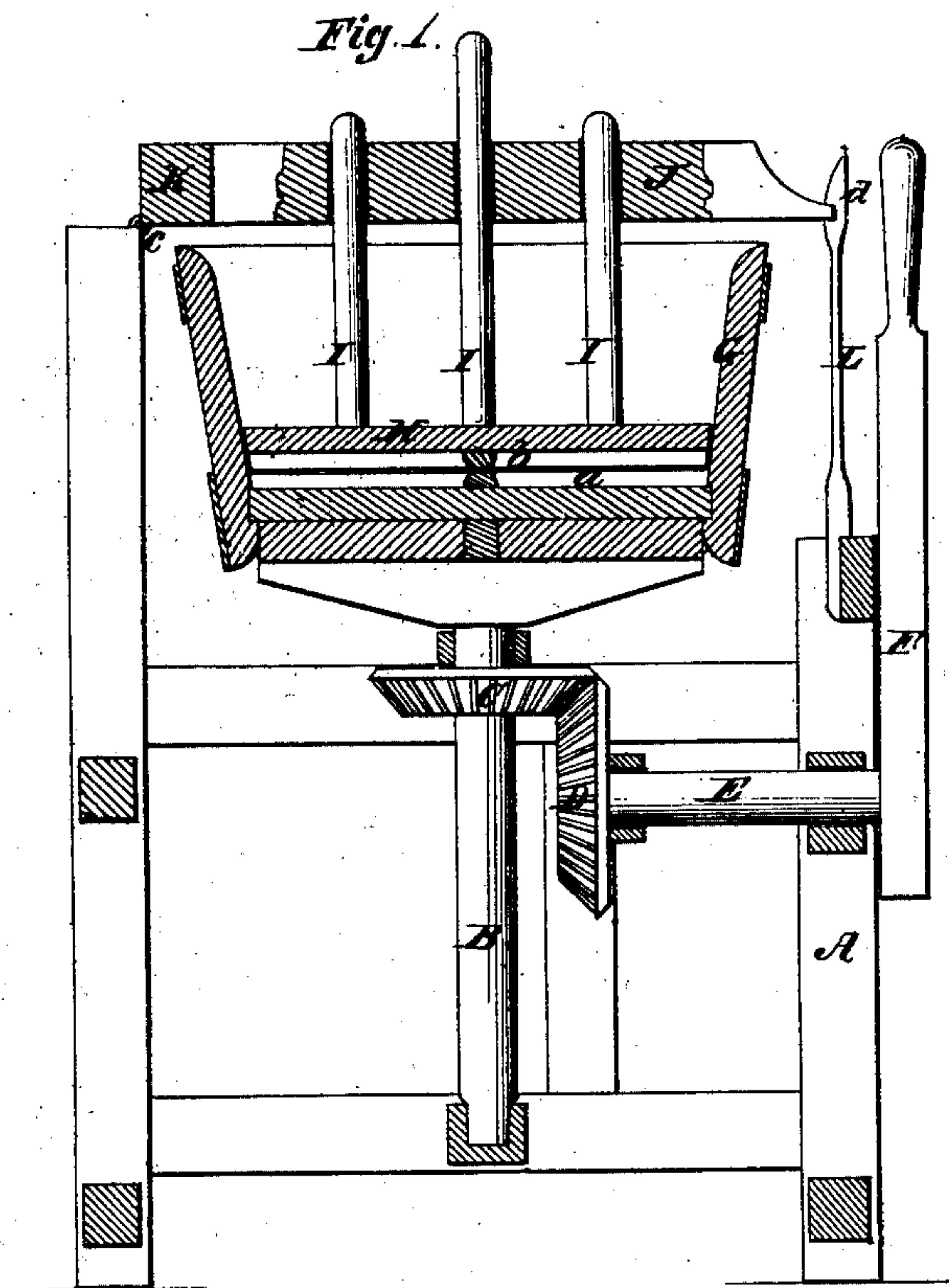


G. N. BOLLES.
WASHING MACHINE.

No. 46,175.

Patented Jan. 31, 1865.



Witnesses.
C. L. Topliff
Theo. Tusch

Inventor
G. N. Bolles
per *Mumford & Co.*
Attorneys

UNITED STATES PATENT OFFICE.

GEORGE N. BOLLES, OF KALAMAZOO, MICHIGAN, ASSIGNOR TO S. W.
WALKER & CO., OF SAME PLACE.

IMPROVED WASHING-MACHINE.

Specification forming part of Letters Patent No. 46,175, dated January 31, 1865.

To all whom it may concern:

Be it known that I, GEORGE N. BOLLES, of Kalamazoo, in the county of Kalamazoo and State of Michigan, have invented a new and Improved Clothes-Washing Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a vertical section of my invention, taken in the line *xx*, Fig. 2; Fig. 2, a plan or top view of the same, with the follower removed.

Similar letters of reference indicate corresponding parts.

This invention relates to a new and improved clothes-washing machine of that class in which an ordinary wash-tub is employed with a follower. The object of the invention is to obtain a washing-machine of the class specified, which may be operated with greater facility than hitherto and perform the desired work expeditiously and in a perfect manner.

A represents a framing, which may be of rectangular form and has a shaft, B, fitted vertically in it, said shaft having a bevel-wheel, C, on its upper part, into which a corresponding wheel, D, gears, the latter being on the inner end of a horizontal driving-shaft, E, which is provided with a lever, F, at its outer end. To the upper end of the shaft B a tub, G, is attached, which may be of the form usually employed for washing clothes by hand. The bottom of this tub has radial ribs *a* attached to it, and within the tub there is placed a circular disk or follower, H, which has radial ribs *b* secured to its under side. This disk or follower H has three uprights, I, secured to it, which pass up loosely through a bar, J, the

latter at one end being framed centrally into a bar, K, which is attached by hinges *c* to the upper part of the framing A. The opposite end of the bar J is, when the machine is in use, held down in a horizontal position by a catch or fastening composed of an elastic upright bar, L, having a recess, *d*, in it. (Shown clearly in Fig. 1.)

From the above description it will be seen that by moving the lever F first in one direction and then in the other that the tub G will rotate to the right and left, and the clothes which are placed under the follower in the tub will be subjected to a requisite friction and pressure to insure them being thoroughly washed, the follower being held slanting or prevented from turning and allowed to rise freely, in order to accommodate itself to the clothes in the tub.

In order to place the clothes in the tub and remove them, the bar J is released from the catch or fastening L and said bar turned upward, so that the follower H will be entirely out from the tub.

This arrangement is exceedingly simple and efficient, and may be operated with far greater facility than by the old plan of moving or turning the follower by hand and with less danger of injuring the clothes.

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

The rotating or reciprocating rotating tub G, in combination with the self adjusting or rising and falling follower H, the guide bar J on the framing A, uprights I on the follower H, hinged-bar K, and catch-bar L, all arranged substantially as and for the purpose specified.

GEO. N. BOLLES.

Witnesses:

WM. MACK,
ELISHA LONDON.