

W. T. McKean,

Washing Machine.

No. 98395.

Patented Dec. 28. 1869.

Fig. 1.

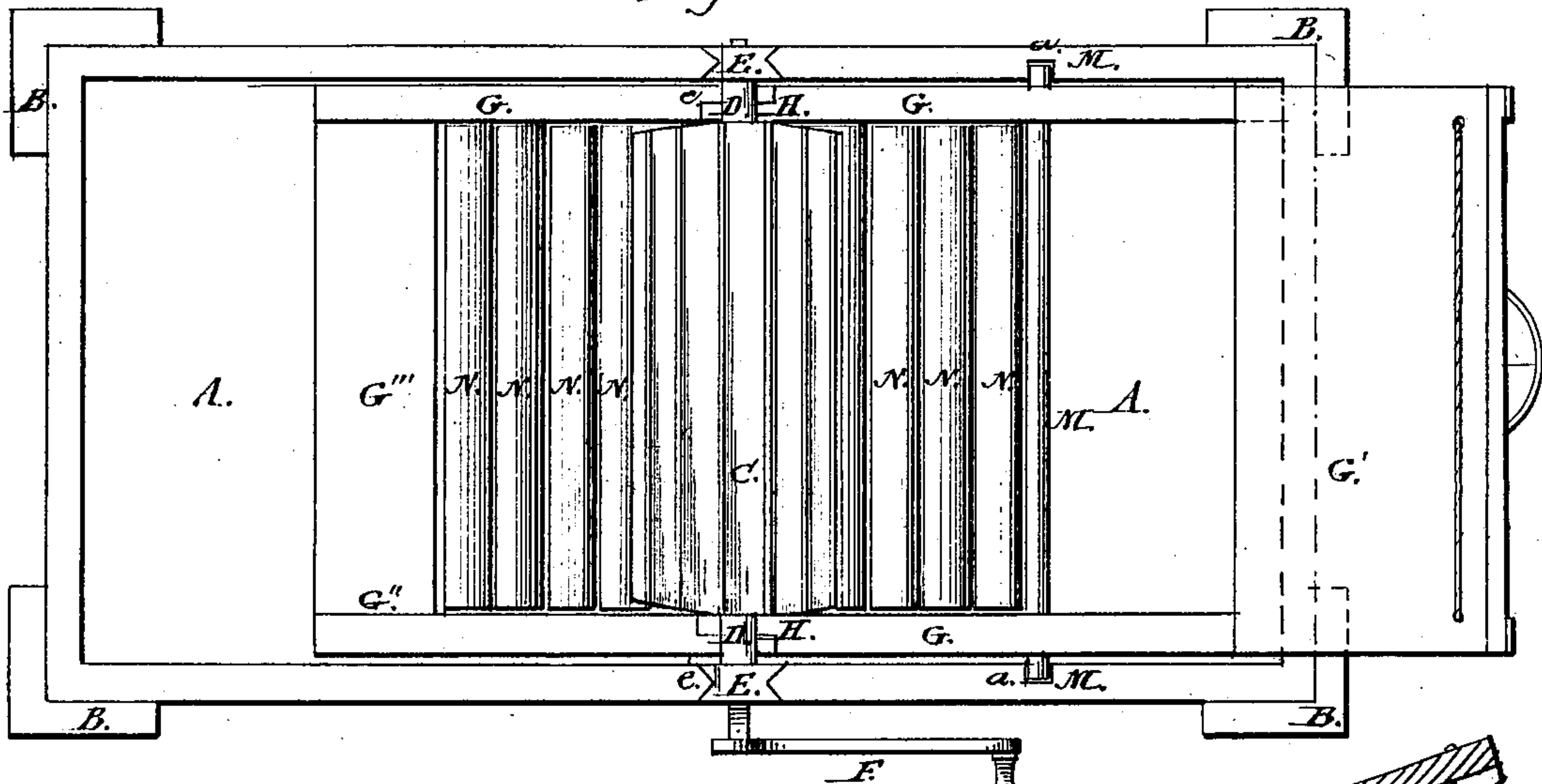
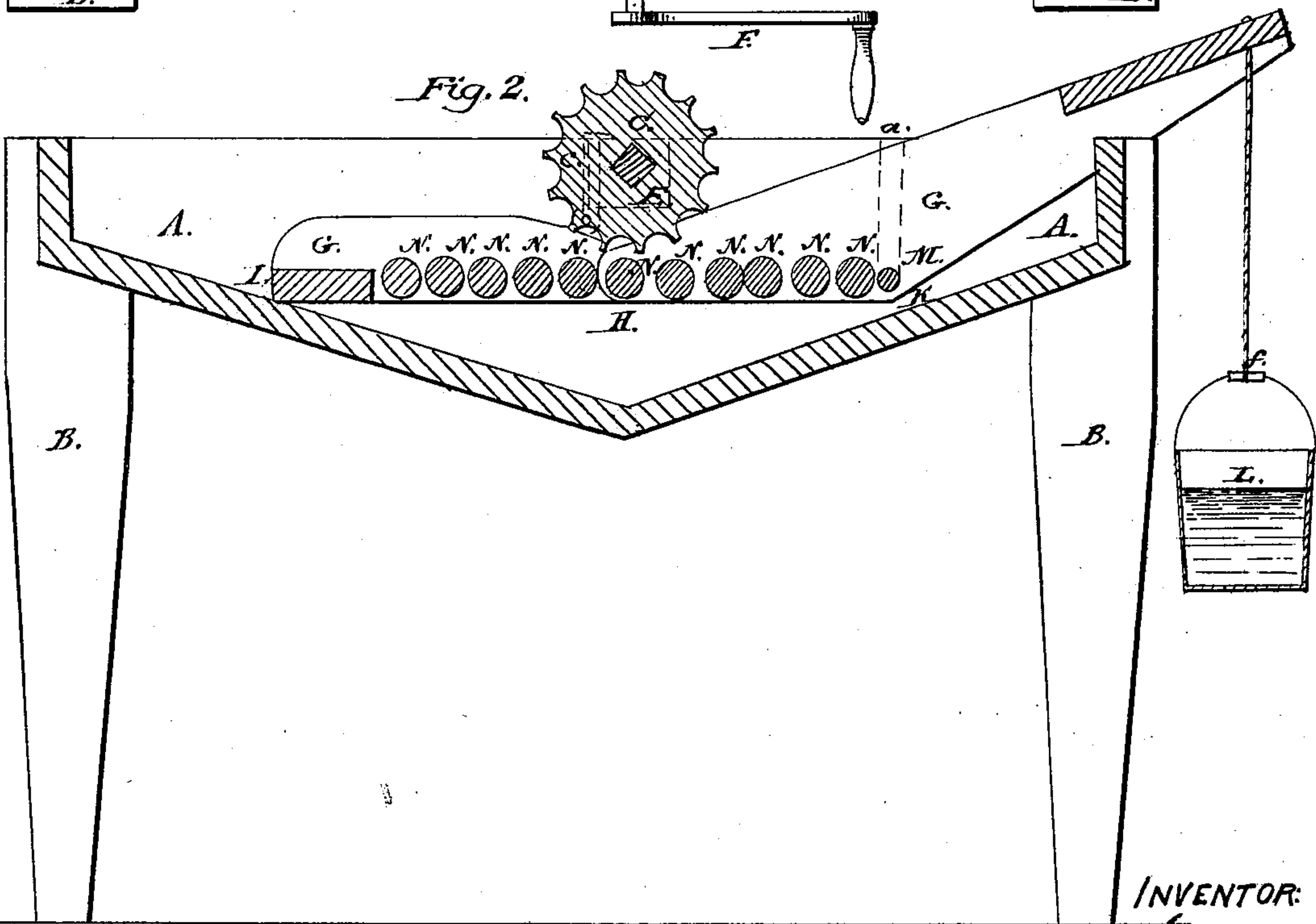


Fig. 2.



WITNESSES:

Al. Schuch
M. H. Brumann

INVENTOR:

W. T. McKean
per Brindle and Co
attorneys

United States Patent Office.

WILLIAM T. McKEAN, OF EAST PALESTINE, OHIO.

Letters Patent No. 98,395, dated December 28, 1869.

IMPROVEMENT IN 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, WILLIAM T. McKEAN, of East Palestine, in the county of Columbiana, and in the State of Ohio, have invented certain new and useful Improvements in Washing-Machines; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, making a part of this specification, in which—

Figure 1 is a plan view of the upper side of my improved device, and

Figure 2 is a vertical central section of the same.

Letters of like name and kind refer to like parts in each of the figures.

My invention belongs to a class of devices having for their object the cleansing of soiled clothing by mechanical means; and

It consists in the peculiar construction and arrangement of the various parts of the device, as is hereinafter fully described.

In the annexed drawing—

A represents a rectangular-shaped trough or box, the bottom of which slopes downward from the ends to the centre, so as to give increased depth at that point.

Four legs, B, of suitable height, are secured to the corners of, and furnish a support for said trough.

Journaled within suitable boxes, E, resting within the sides of the trough, is a metal shaft, D, having secured thereto a fluted wooden cylinder, C, which may be rotated, together with said shaft, by means of a crank, F, attached to one end of the same outside of the trough.

G G represent two bars, connected together at their outer ends by means of a cross-bar, G', and pivoted at their inner ends, H, to the inner ends of two short bars, G'', which, in turn, are connected together at their outer ends, by means of a cross-bar, G''', the whole forming a frame for containing a series of small rollers, N, suitably journaled within said side-bars G, with their axes parallel with that of the fluted cylinder C, the journals of the central roller N' forming the pivot for connecting together the sections of the frame.

As seen in fig. 2, the upper edges of the side-bars G are straight, while their lower edges present the form of an obtuse angle, the vertex of which, K, is placed at a distance from the pivot H corresponding with the length of the bars G''.

Immediately above said vertex K, is a rod, M, which, passing through the bars G, has its projecting ends journaled within the lower ends of corresponding vertical grooves, a, cut within the inner faces of the side-boards of the trough, the ends of said rod thus forming fulcrum-pivots, upon which the frame rests, and is permitted to oscillate, so that by depressing or raising its outer end, a corresponding opposite motion of the central or jointed portion of the same is produced.

A suitable weight, L, being suspended from the outer end of the roller-frame, the device is complete, and is operated as follows:

A suitable quantity of suds being supplied to the trough, the clothing to be washed is placed therein, and the cylinder C revolved, so as to cause said clothing to pass back and forth between it and the small rollers N, by which means all dirt will be easily and quickly removed from the fabrics, without, in the slightest degree, injuring the same.

The flexibility of the roller-frame, together with the operation thereon of the weight, renders the pressure between the cylinder and rollers uniform at all times, regardless of the thickness of the clothing being operated upon, which pressure may be varied at will, by increasing or diminishing the weight.

Having thus fully set forth the nature and merits of my invention,

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

In a washing-machine, a roller-frame, jointed at its centre, longitudinally, and resting upon fulcrum-pivots, so that the weight, attached to one end of said frame, shall press the jointed central portion against a rotating cylinder, as shown, and for the purpose herein specified.

Also, the herein-described washing-machine, consisting of the box or trough A, the legs B, the fluted cylinder C, the shaft D, the boxes E, the crank F, the centre-jointed frame G, G', G'', and G''', the weight L, the fulcrum-pivots M, and the rollers N, all constructed and arranged as and for the purpose specified.

In testimony that I claim the foregoing, I have hereunto set my hand, this 8th day of May, 1868.

WM. T. McKEAN.

Witnesses:

ENOS GOBLE,
J. T. CHAMBERLIN