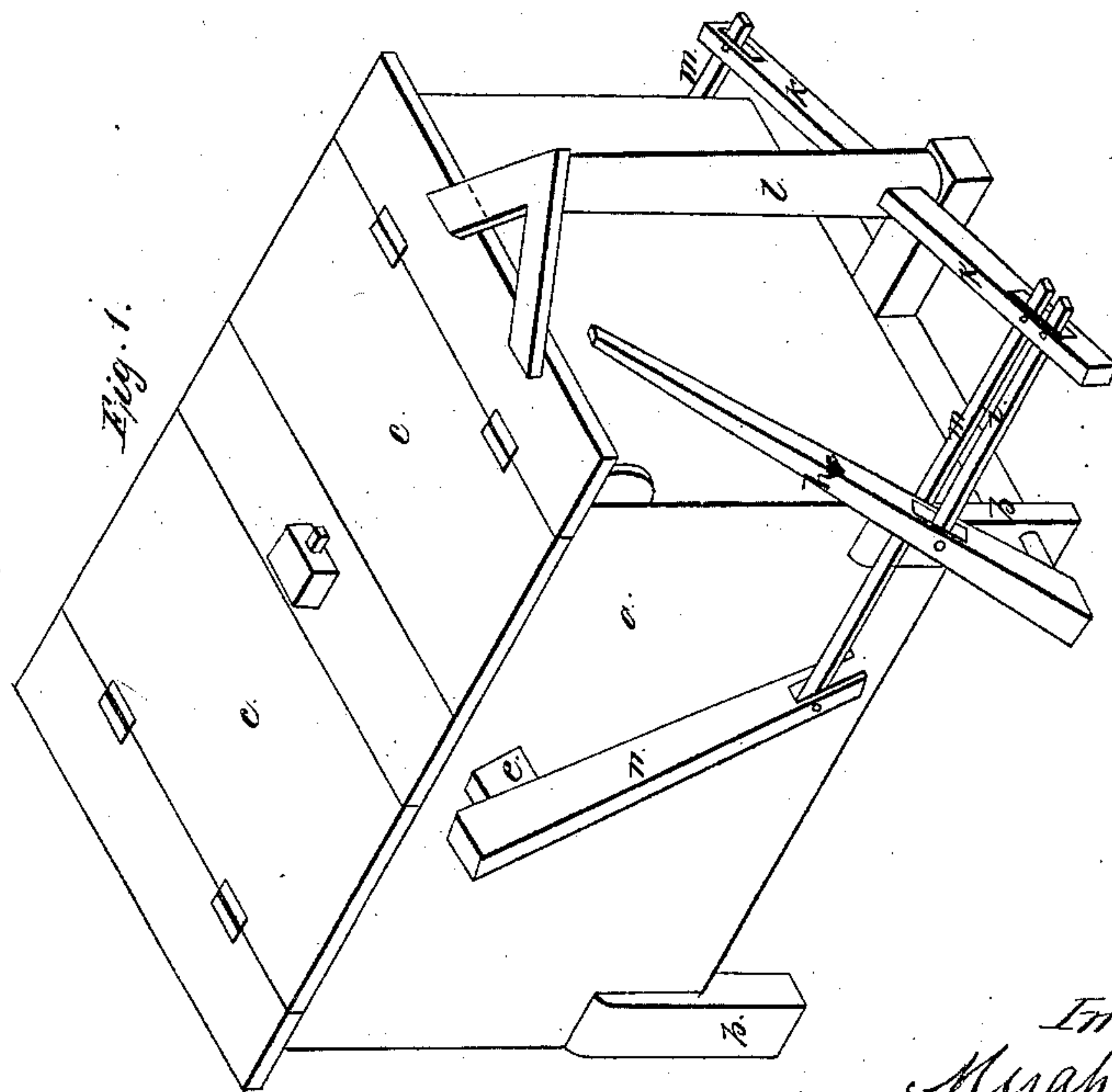
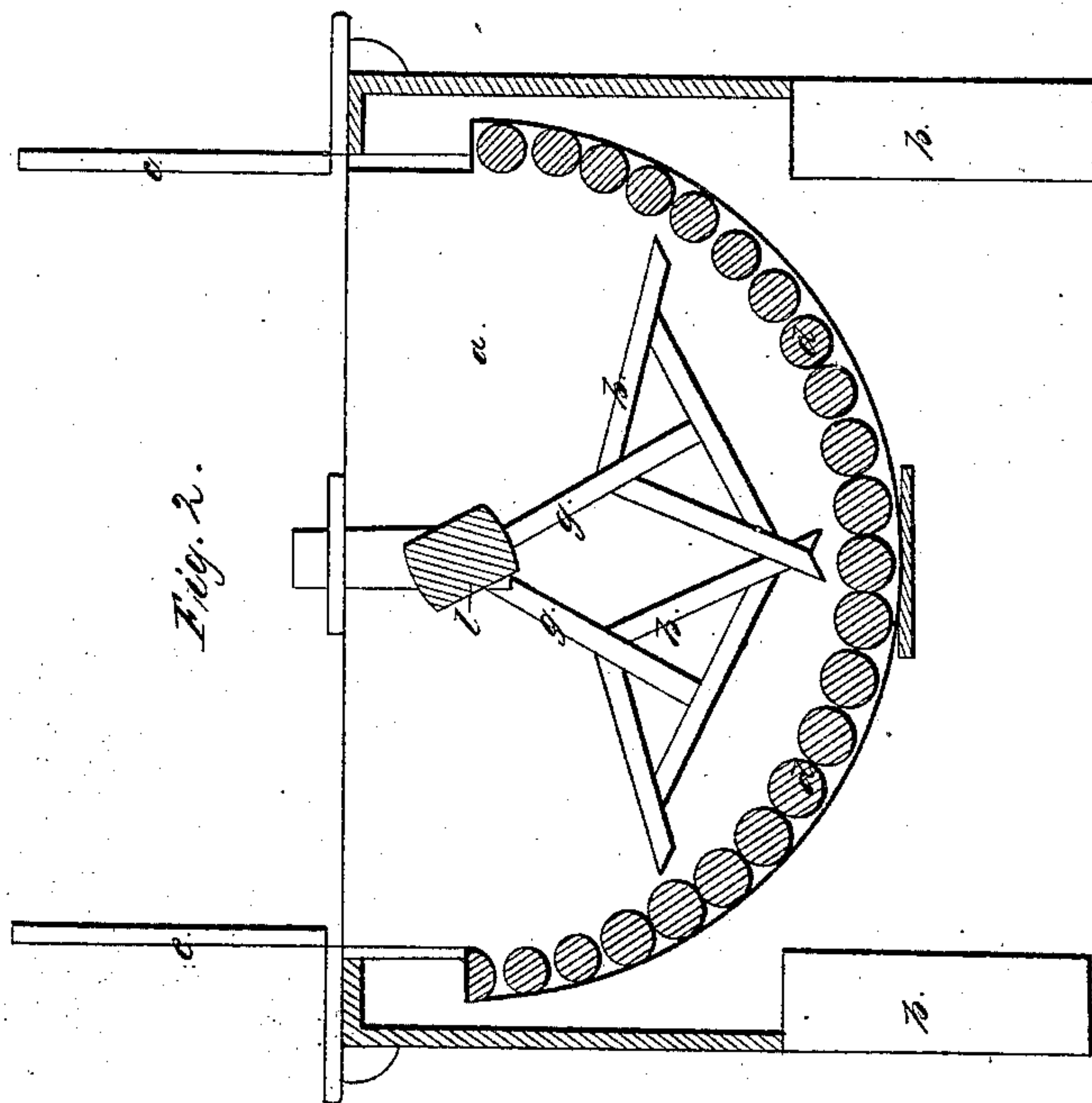


*M. Gillam,*

*Washing Machine,*

*N<sup>o</sup> 22,497.*

*Patented Jan. 4, 1859.*



*Witnesses:*  
*J. A. Bothwell*  
*W. H. Mauley*

*Inventor:*  
*M. Gillam*

# UNITED STATES PATENT OFFICE.

MICAH GILLAM, OF ALBA, PENNSYLVANIA.

## WASHING-MACHINE.

Specification of Letters Patent No. 22,497, dated January 4, 1859.

*To all whom it may concern:*

Be it known that I, MICAH GILLAM, of Alba, in the county of Bradford and State of Pennsylvania, have invented a new and  
5 useful Improvement in Washing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings and to the marks and letters  
10 thereon.

Of the drawings, Figure 1 is a perspective view of the machine, Fig. 2 being a central longitudinal section thereof.

In each of these figures the same letters  
15 indicate like parts.

My machine is composed of the tub or receptacle (*a*) which is supported upon vertical frame-work (*b, b*), the tub or receptacle having doors or lids (*c, c*).

20 As will be seen by referring to Fig. 2 the tub or receptacle is about the half of a cylinder. Its interior is lined with anti-friction rollers (*d, d, d*). A horizontal bar or shaft (*e*) has attached to it two beaters or  
25 lifters (*f, f*), by arms (*g, g*). These beaters are extended from the shaft in opposite directions and are so arranged in relation to each other that when the one is elevated to its highest position the arm of the other  
30 will be in about the central line of the tub.

The beaters or lifters are made up of two plates forming a structure like the letter, *A*, the brace connecting the two plates having the plan of the cross mark of that letter.  
35 The shaft to which the beaters or lifters are attached is a horizontal rocker-shaft and is actuated by the hand-lever (*h*), there being interposed between the hand-lever and the rocker-shaft connecting rods (*i, i'*), arms  
40 (*k, k*), vertical rocker-shaft (*l*), connecting-rods (*m, m*) and crank-arms (*n, n*). By these means it will readily be seen that the beaters will have given to them vibratory

motion, and that the arrangement of the means is very excellent toward producing an  
45 easy and regular action of the beaters with very limited power or force.

The shape of the beaters is such as to act upon the clothes being washed with a lifting pressure, that is, while the clothes are  
50 pressed between the beaters and the rollers they are lifted up, thus producing a rubbing and squeezing of the clothes instead of pounding or of pressure alone, which are the more common functions in washing ma-  
55 chines of the beaters. The shape of the beaters also allows the water or washing liquid to have more action than is usual in such machines. It will be noticed that the water will have a ready and easy flow over  
60 the surface of the beaters and underneath them so that during the motions given the clothes they will be brought in contact freely with all the particles of the washing liquid. In use it has been ascertained that this  
65 action of the water in this machine contributes very greatly toward rapid and clean washing, and the clothes are not mutilated and worn as is too frequently the case with  
70 washing by machines.

Having thus fully set out the construction and operation of my invention what I claim as new and desire to secure by Letters Patent is,

The beaters or lifters arranged upon the  
75 rocker-shaft, within the half-cylindrical tub lined with anti-friction rollers, the rocker-shaft being operated by the lever, vertical shaft and connecting rods, and the whole being constructed and operated as herein set  
80 forth.

MICAH GILLAM.

Witnesses:

F. G. MANLEY,  
M. M. MANLEY.