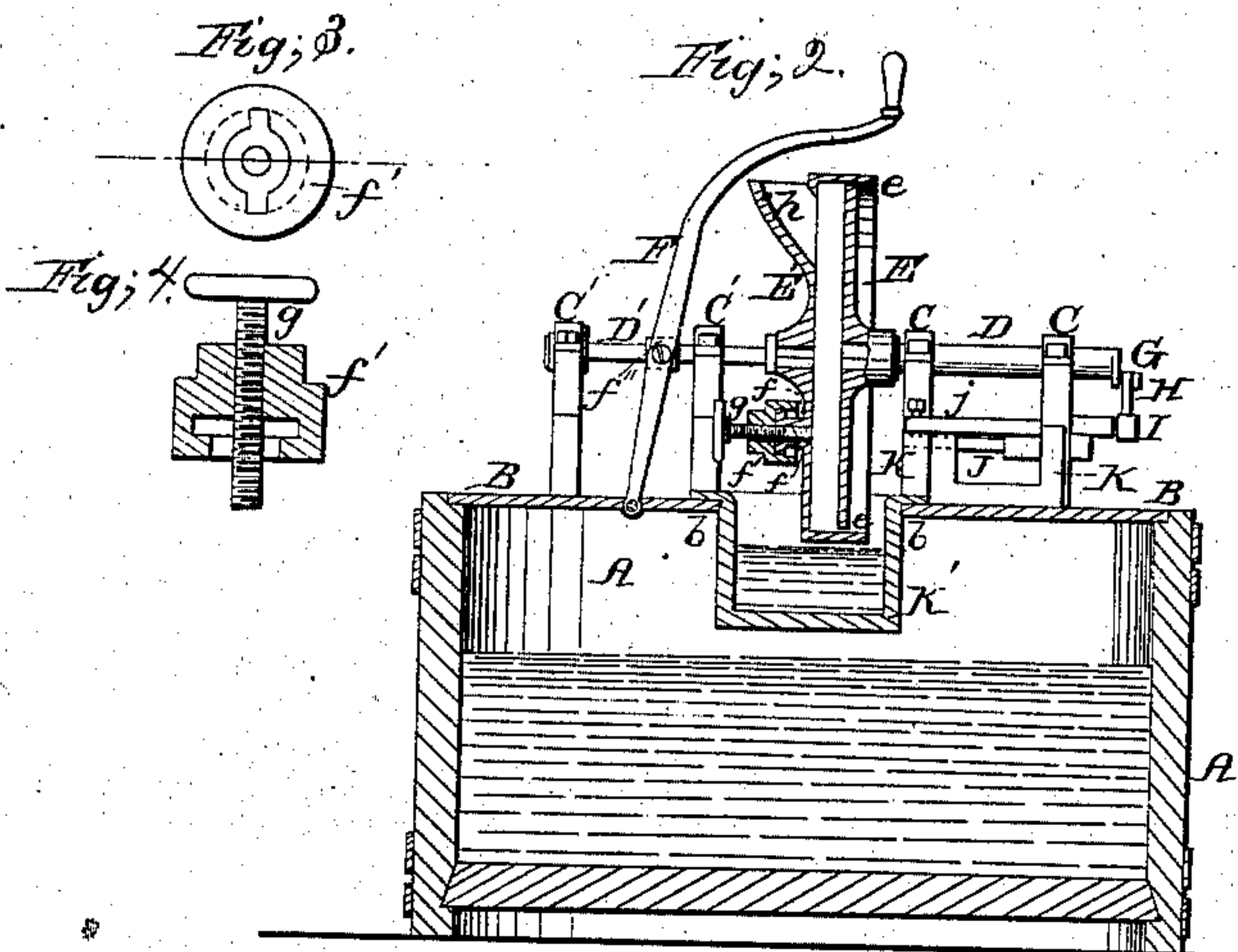
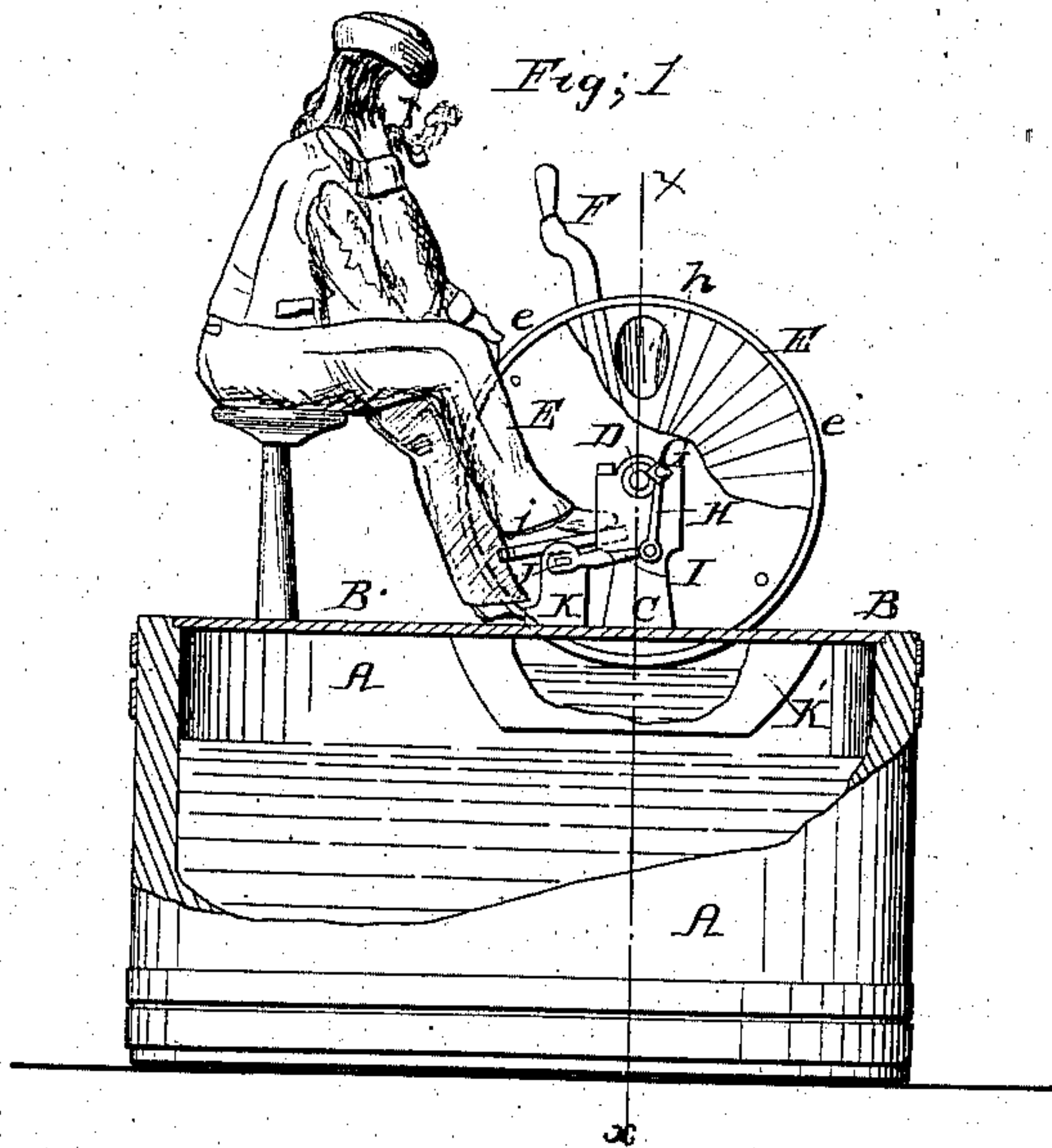


M. Mc Enerry,
Washing Machine,
N^o 66,162. *Patented June 25, 1867.*



Witnesses;
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M. McENERNY, OF BIRMINGHAM, CONNECTICUT.

Letters Patent No. 66,162, dated June 25, 1867.

IMPROVED 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, M. McENERNY, of Birmingham, in the county of New Haven, and State of Connecticut, 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 thereof, which will enable others 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 represents a side elevation with the tank or tub partly broken away.

Figure 2 represents a central vertical section through the line *x x* of fig. 1.

Figures 3 and 4 represent detail views of parts of the machine.

Similar letters of reference indicate like parts.

A, in the drawings, represents a tub or tank in which water is placed. This tank is covered by a plate, B, on which are secured the standards C C C' C'. In suitable bearings on the standards C C C' C' are hung horizontal shafts D D', the one, D, so as to revolve within the standards C C, and the other, D', so as to be moved toward and away from the end of the shaft D, but with the two shafts on a straight and horizontal line with each other. E is a circular disk or plate secured to the shaft D, and E' another disk or plate secured to the shaft D', the disk E' having a flange, *e*, around its edge. The inner surfaces of these disks E and E' facing toward each other are similarly corrugated, and between these corrugated surfaces the clothes are placed and washed, as will be hereinafter described. On the upper outer end of the disk or plate E' is a hopper, *h*, in which are placed the clothes, and from which they are fed between the disks or plates E E'. To one side of the conical opening of the disk E' is arranged a suitable device for feeding the soap to the inner surfaces of the disks E E', which consists of a projecting pocket, *f*, into which is placed the soap, and to which pocket is coupled a cap, *f'*. In the centre of this cap is cut a screw-thread in which is fitted the screw *g*, which bears directly against the soap. By this means the soap can be fed inward against the clothes as fast as it is consumed during the operation of the machine. The plate or disk E' is held stationary upon its shaft D' by means of a feather key or other device. To this shaft D' is attached the lever F at its fulcrum *f''*, and the lower end is jointed in the plate B. The upper end of the lever terminates with a handle, by which means the shaft D' can be shifted back and forth, and any desired degree of pressure can be applied to the clothes between the disks, thus rendering the machine capable of washing fine or coarse goods with the utmost success. By this means also the disks or plates E E' can be separated, when the clothes will drop through the opening *b* of the plate B into the tub or tank below. The outer end of the shaft D is provided with a crank, G, to which is attached the upper end of the connecting-rod H. The lower end is attached to the crank I of the shaft J, which rests in standards K K. To the shaft J is firmly attached a treadle-plate, *j*, from which the machine is operated.

The operation is as follows: The treadle-cranks I and G and connecting-rod H give motion to the horizontal shaft D, to which is secured the disk or plate E, against or toward which the plate or disk E' is pressed by means of lever F, and between the disks or plates the clothes or rags to be washed are placed, through the hopper *h*, and the revolving of the disk E causes a thorough washing of the clothes contained between it and the disk E'. When clothes or rags are very dirty or filthy and need more than usual washing, an additional tank or tub K' is employed, which is set in the opening *b* of the plate B of the tank A, and which is filled with soap-suds. In this tank the clothes are dropped occasionally to assist in the speedy washing thereof.

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

1. The combination and arrangement of the vertically arranged plates or disks E E', fitting one within the other, one plate having a lateral adjustment, the other plate having a rotary motion, all substantially as herein shown and described.
2. I also claim the hopper *h*, in combination with the disk or plate E' for inserting the clothes in the machine, substantially as described.
3. The soap device constructed, as described, consisting of the projecting pocket *f* in the disk E, cap *f'*, and set-screw *g*, in combination with the disk E', as herein set forth for the purpose specified.
4. The treadle device constructed as described, and arranged to operate with the disks E E' and lever F, as herein set forth for the purpose specified.
5. I also claim the combination of the lever F with the disk or plate E', substantially as and for the purpose described.
6. The combination of the removable tub K with the disks E E', and the tub A, substantially as and for the purpose herein shown and described.

Witnesses:

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