

E. POTTS.
Washing-Machines.

No. 134,769.

Patented Jan. 14, 1873.

Fig 1

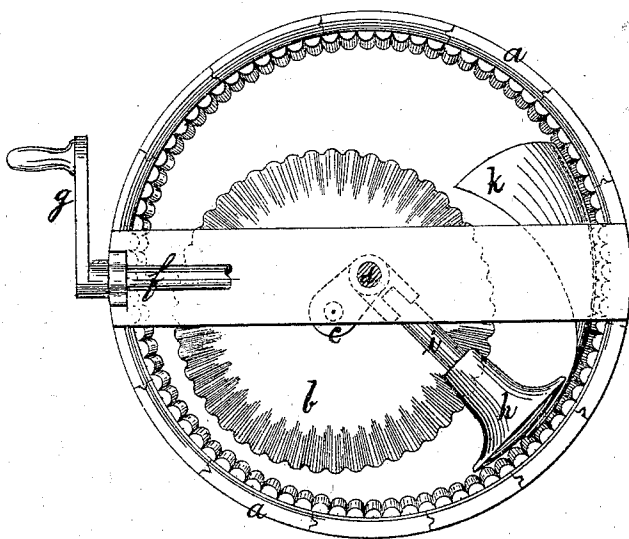
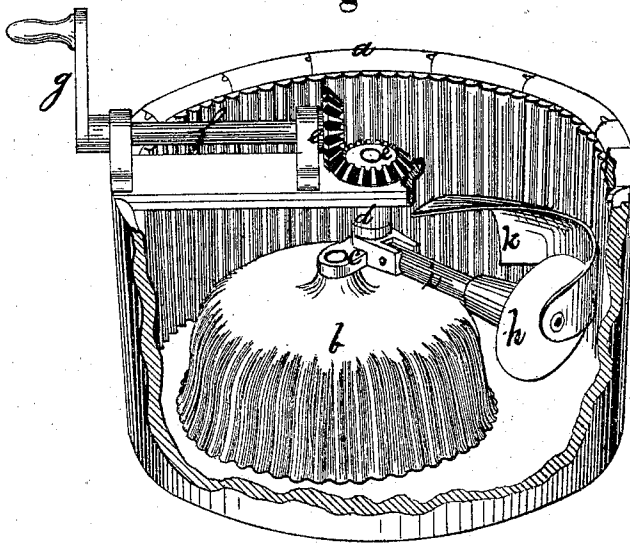


Fig 2



Witnesses:

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UNITED STATES PATENT OFFICE.

EDWARD POTTS, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 134,769, dated January 14, 1873.

To all whom it may concern:

Be it known that I, EDWARD POTTS, of Philadelphia, Pennsylvania, have invented a Washing-Machine, of which the following is a specification:

My invention consists, first, of a combination, with an inclosing-vessel, of a roller or drum arranged eccentrically within said vessel, revolving horizontally and operating so as to press the objects to be washed between it and the sides of said vessel with an intermittent and a progressively-continuous pressure; second, devices for automatically turning over or upsetting the objects to be washed, and thus causing them to be presented in different positions to the action of the pressure-roller.

Figure 1 is a plan of the machine, the covers being removed; Fig. 2, a perspective of the same, a portion of the inclosing-vessel *a* being broken away.

b is a roller or drum, of the form shown. It is rotated by similar cranks at top and bottom, the top crank, *c*, only being shown. *d* is the upper part of the axis of the vessel *a*. A corresponding lower portion of said axis, to which the said lower crank is attached, is not shown. *e e* are gears, and *f* and *g* are the shaft and crank by which power is applied to rotate the drum *b*. *h* is a bell-shaped roller turning on a lever, *i*, which is flexibly attached, as shown, to a short projection from the axis *d*. *k* is a curved device attached to the roller *h*, as shown in Fig. 2. The drum *b* has an eccentric motion, being revolved by the axis *d* and cranks *c*, and it has at the same time a rotary

motion on its own axis, occasioned by its contact with the objects to be washed.

Its operation is to press and relieve the clothing or other materials to be washed, and in the progress of its revolution it produces this effect successively around the circumference of the vessel *a* on all the clothing or materials laid between it and the sides of vessel *a*. The roller *h* travels on top of the materials to be washed, and operates to incline such materials from the sides of vessel *a*, thus opening a way for the wedge or scroll-shaped follower *k*, which, by its peculiar form, upsets the clothing into the free space left by the withdrawal of the eccentric roller *b*. The clothing is thus caused to present different surfaces to the pressure-roller *b*.

I claim—

1. The combination of an inclosing-vessel with a pressure-roller or drum, arranged eccentrically to the axis of said vessel, for producing an intermittent progressively-continuous pressure on the clothing or other objects to be washed, as shown and described.

2. The bell-shaped roller *h* and follower *k*, for upsetting or turning the objects to be washed, constructed substantially as described.

3. The combination of vessel *a*, drum *b* arranged eccentrically, bell-shaped roller *h*, and follower *k*, all constructed substantially as set forth, for the purpose specified.

EDWARD POTTS.

Witnesses:

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