

JACOB KILLINGER.

Improvement in Washing-Machines.

No. 125,896.

Patented April 23, 1872.

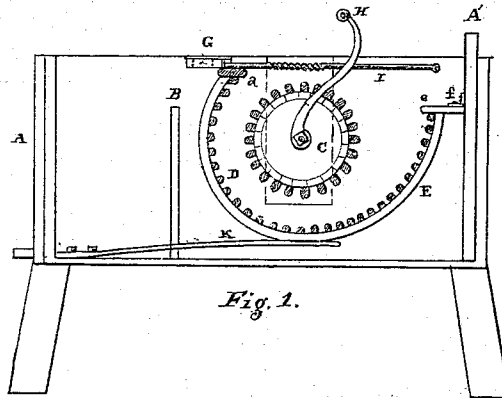


Fig. 1.

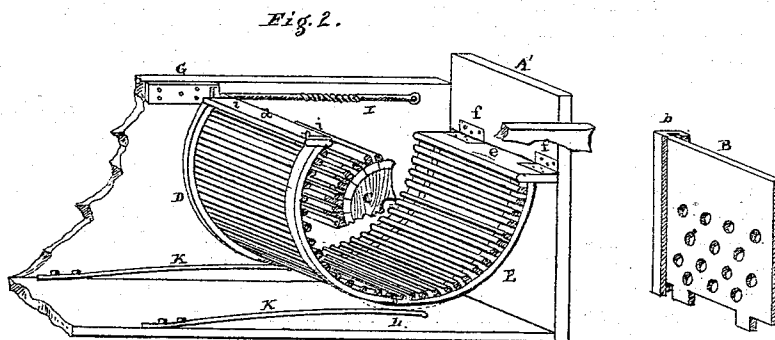


Fig. 2.

Witnesses.

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UNITED STATES PATENT OFFICE.

JACOB KILLINGER, OF LANCASTER, PENNSYLVANIA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 125,896, dated April 23, 1872.

Specification describing certain Improvements in a Washing-Machine, invented by JACOB KILLINGER, of the city of Lancaster, in the State of Pennsylvania.

The nature of my improvement relates to an extensive class of box washing-machines, in which slatted or fluted cylinders are used; and consists in the manner of hinging a concentric and eccentric slatted concave together and the latter to the box, and the employment of two pairs of springs in such a manner as to secure a reciprocal and self-adjusting action and reaction with a revolving cylinder in their combined action upon the clothing submitted for being washed.

The accompanying drawing illustrates my invention. Figure 1 is a longitudinal vertical section. Fig. 2 shows the concaves, springs, and partition in perspective.

A represents the ordinary square box; *c*, a slatted cylinder, with a crank-handle, H, of the ordinary kind, only I form the bearings in two parts, with gum-elastic stuffing between them to prevent leaking around the shaft of the handle, which is a common fault I thereby remedy. D is a slatted concave, concentric with the cylinder *c*, with a ledge, *d*, at the top, and catch-plate *i*, which (on each side) connects by a coiled or elastic spring, I, with the side of the box. This concentric concave D is hinged below (in a vertical line to the shaft of the cylinder *c*) to an eccentric slatted concave, E, which widens the space above between it and the cylinder. The upper shelving-slat *e* is hinged at *ff* to the box A. At the point of junction of both concaves below, at L, they rest upon a wooden or other suitable spring,

K. There is also shown a friction or guide-plate, G, and catch, to prevent the spring I from drawing it beyond its limits or straining the hinge. I also have a perforated partition, B, fitted in grooved ways to the side of the box, so as to be removable. By this division I avoid the necessity of using a tub for previously soaking the clothes, and find it a convenient arrangement.

I am aware that slatted cylinders or their equivalents are common and are used with a series of concentric rollers or a concave-bed of rollers, as also movable jointed frames and divers kinds of springs; but I am not aware of any combined arrangement of a concentric and eccentric concave so hinged and operated upon by springs as to keep or hug the clothing being washed, whether you turn backward or forward or oscillate the cylinder up and down, partially round, to rub against the concentric D. It is the result arising from this combination, so well fitted for every desirable motion and pressure in washing, that renders this machine so efficacious.

What I claim as my invention, and desire to secure by Letters Patent, in a box washing-machine provided with a slatted cylinder, is—

The combination of a concentric slatted concave, D, hinged to an eccentric slatted concave, E, and the latter to the box A at *f*, together with the upper pair of springs I and lower pair K, all arranged and operating in the manner and for the purpose specified.

JACOB KILLINGER.

Witnesses:

WM. B. WILEY,
JACOB STAUFFER.