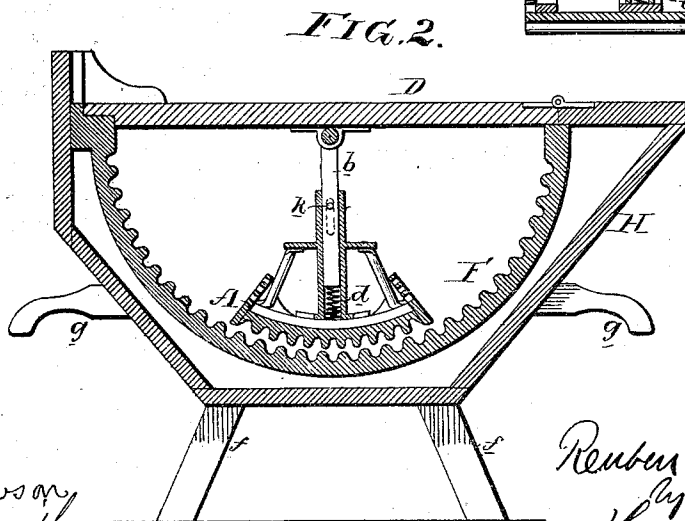
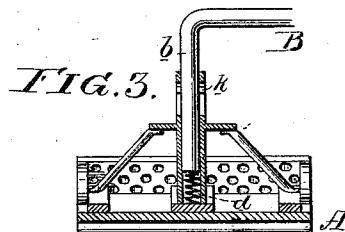
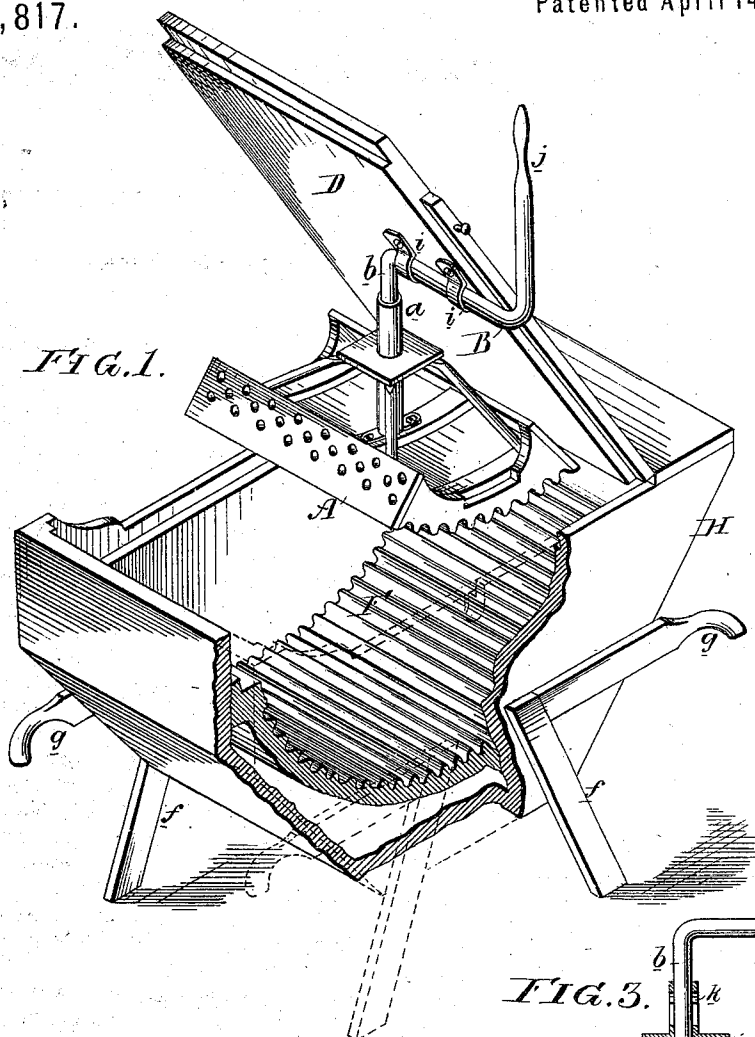


No. 149,817.

R. A. WEISS.
Washing-Machines.

Patented April 14, 1874.



Witnesses,
Hubert Hovson
Harry Smith

Ruben A. Weiss
By his Attys.
Hovson and Son.

UNITED STATES PATENT OFFICE.

REUBEN A. WEISS, OF CENTREPORT, PENNSYLVANIA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 149,817, dated April 14, 1874; application filed January 24, 1874.

To all whom it may concern:

Be it known that I, REUBEN A. WEISS, of Centreport, Berks county, State of Pennsylvania, have invented an Improvement in Washing-Machines, of which the following is a specification:

My invention relates to that class of washing-machines in which the clothes are kneaded by and between a fixed concave rubbing-bed, within a vessel, and a vibrating rubber; and the main object of my invention is to facilitate the operation of washing-machines of this class, and the introduction and removal of the clothes, by suspending the vibrating rubber A from the under side of the hinged lid D of the vessel containing the fixed rubbing-bed F, as shown in the perspective view, Figure 1, sectional elevation, Fig. 2, and detached section, Fig. 3, of the accompanying drawing.

The frame of the machine consists of a box, H, supported upon legs *f*, and having handles *g*. Within this box there is a semicircular rubbing-bed, F, preferably composed of a number of slats, arranged closely together, and secured at their ends to ledges in the opposite sides of the box. The above-mentioned hinged lid D is situated directly over this rubbing-bed, and exposes the whole of the same when opened, as shown in Fig. 1. The rock-shaft B is adapted to bearings *i* on the under side of the lid, in such a position that when the latter is closed the said shaft shall be concentric with the rubbing-bed.

In the present instance, the shaft has a single operating-handle, *j*; but it may be continued

entirely across the lid, and provided with handles at both ends.

An arm, *b*, projects from the shaft into a tubular projection, *a*, on the rubbing-bed, and is retained therein by a pin, *k*, adapted to a longitudinal slot in said projection, or by other equivalent means. A spring, *d*, is contained within the tubular projection, and bears constantly against the end of the arm *b*, thus forcing the rubber against the fixed rubbing-bed with a yielding pressure, which renders the said rubber self-accommodating to the thickness of the mass of clothes over which it is caused to pass when oscillated.

I have found that, by placing the spring in this position, better results are obtained than by the usual plan of rendering the rock-shaft yielding in its bearings.

The rubber, being suspended from the lid of the machine, is lifted clear of the bed whenever said lid is opened, as shown in Fig. 1, free access being thus obtained to the interior of the machine, for the purpose of introducing or removing the clothes.

I claim as my invention—

The combination, with the hinged lid D and rock-shaft B, of the rubber A, sleeve *a*, and spring *d*, as and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

R. A. WEISS.

Witnesses:

WM. B. SCHOENER,
J. DALLAS SCHOENER.