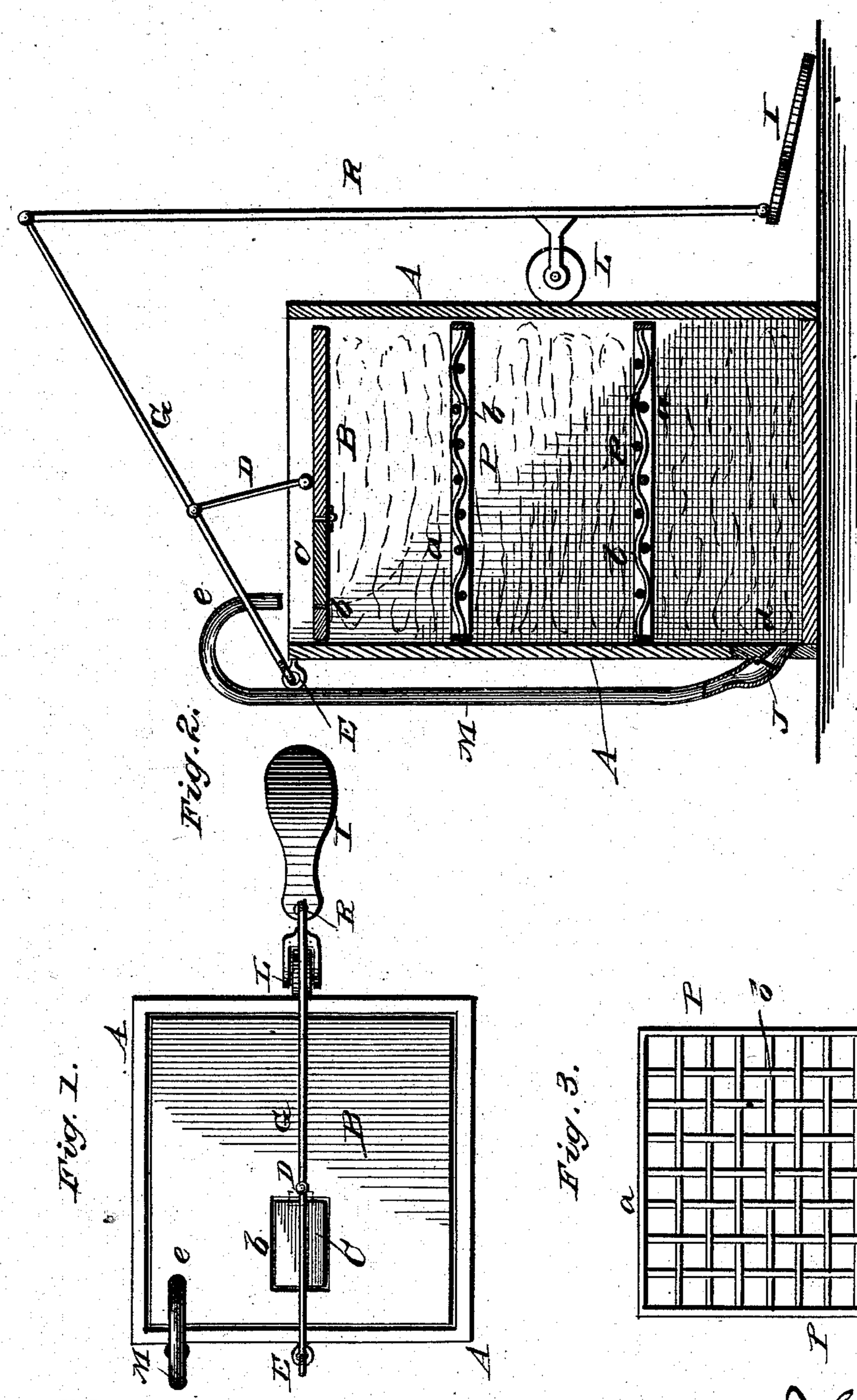
(No Model.)

S. C. DANFORTH.

WASHING MACHINE.

No. 288,552. Patented Nov. 13, 1883.



Witnesses:
John T. Morrow
E. L. Bates.

Inventor:
S. C. Danforth.
by Anderson & Smith.
his Attorneys.

UNITED STATES PATENT OFFICE.

SIMEON C. DANFORTH, OF WATSON, MISSOURI.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 288,552, dated November 13, 1883.

Application filed June 4, 1883. (No model.)

To all whom it may concern:

Be it known that I, SIMEON C. DANFORTH, a citizen of the United States, residing at Watson, in the county of Achison and State of Missouri, have invented certain new and useful Improvements in Washing-Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a top view. Fig. 2 is a vertical section. Fig. 3 is a detail view.

This invention has relation to washing-machines; and it consists in the construction and novel arrangement of devices, as hereinafter set forth, and particularly pointed out in the appended claim.

In the accompanying drawings, the letter A designates the body or box of the washing-machine, in which is arranged a neatly-fitting piston or plunger, B, having an opening, *b*, which is fitted with a valve, C, opening downward.

In the box or case A are located a series of removable separators, P, one above another, each separator consisting of a frame, *a*, and cross-strips or cross-wires *b'*. These separators are used between the articles which are placed in the box to be washed, and serve to separate the mass, so that the water will find its way down through the articles, instead of passing only over the surface and sides of the mass.

M indicates a tube, which is connected, near the bottom of the box, to the latter, and communicates with the interior thereof through an opening at *d*, which is provided with a valve, J, opening outward or upward. The tube M extends upward above the box sufficiently to discharge, by its spout *e*, the water received from the box upon the piston or plunger B.

G indicates a lever, which is connected to a bearing, E, attached to the box or case, and is provided with an arm, D, which extends from the lever, to which it is pivoted, downward to the piston or plunger B, to which it is connected.

R designates a vertical rod, which is pivoted to the end of the lever G and hangs therefrom, being provided with a roller-bearing, L, which engages the vertical wall of the box, and with a treadle projection, I, whereby the rod is pressed down, depressing the lever and piston and compressing the goods in the box, at the same time forcing the water downward into and through the same.

The water from the bottom of the box is, by the forcing action of the plunger, raised through the tube M and discharged upon the top of the plunger. When the pressure is removed from the plunger it rises, owing to he elasticity of the mass of goods, aided by that of the separators in the box, the valve in the plunger opens, and the water above said plunger falls through the opening *b* therein upon the goods in the box.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

The washing-machine herein described, consisting of the box having the valved tube M, extending from its lower portion upward, the plunger B, having the valve C, arranged below the discharge-spout of said tube and a series of separators in said case, the operating-lever G, connected to the plunger by the arm D, the rod R, roller-bearing L, and treadle projection I, all combined and adapted to operate substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

SIMEON CUMMING DANFORTH.

Witnesses:
J. D. DOUGLAS,
C. C. CROSS.