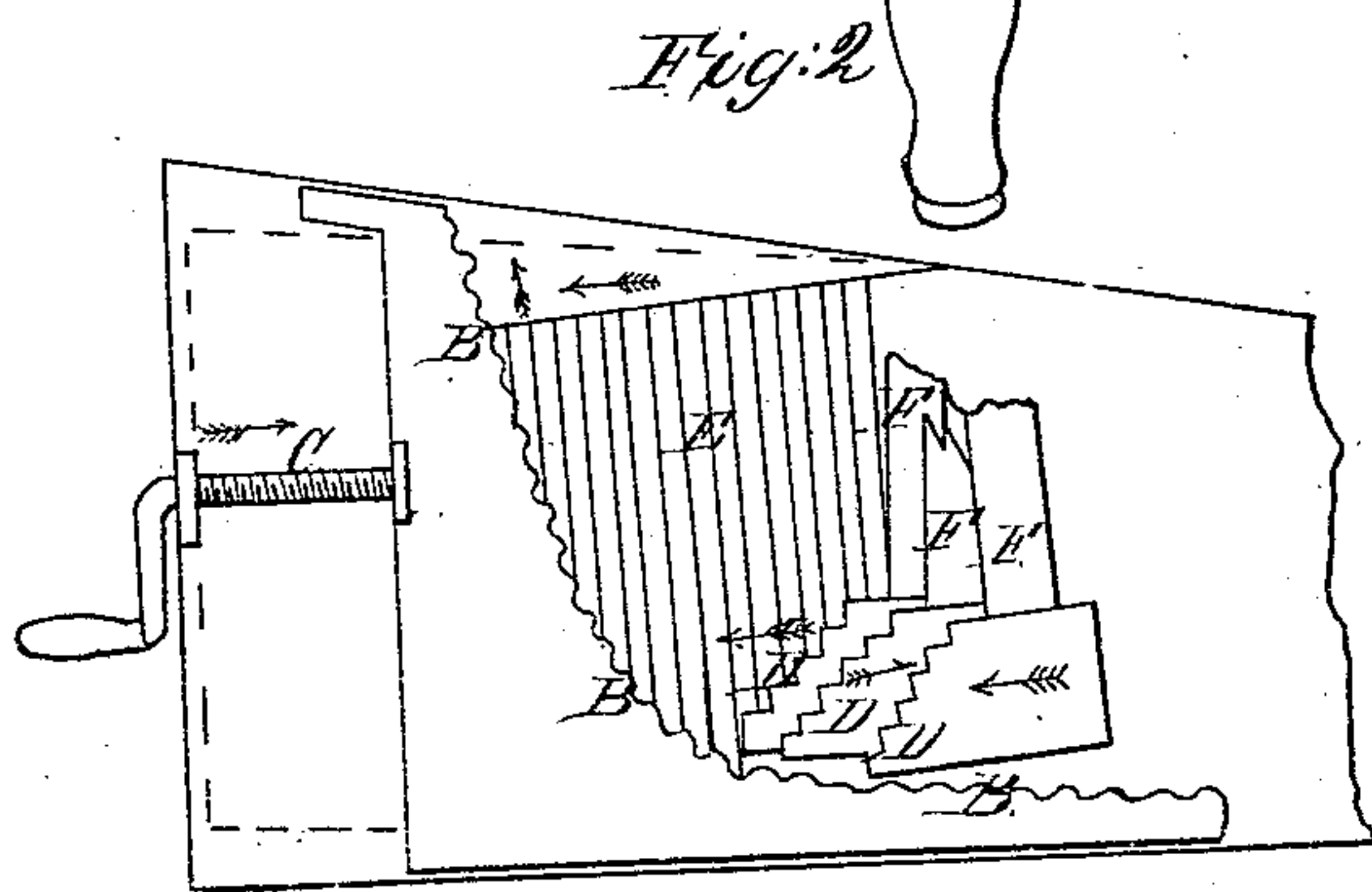
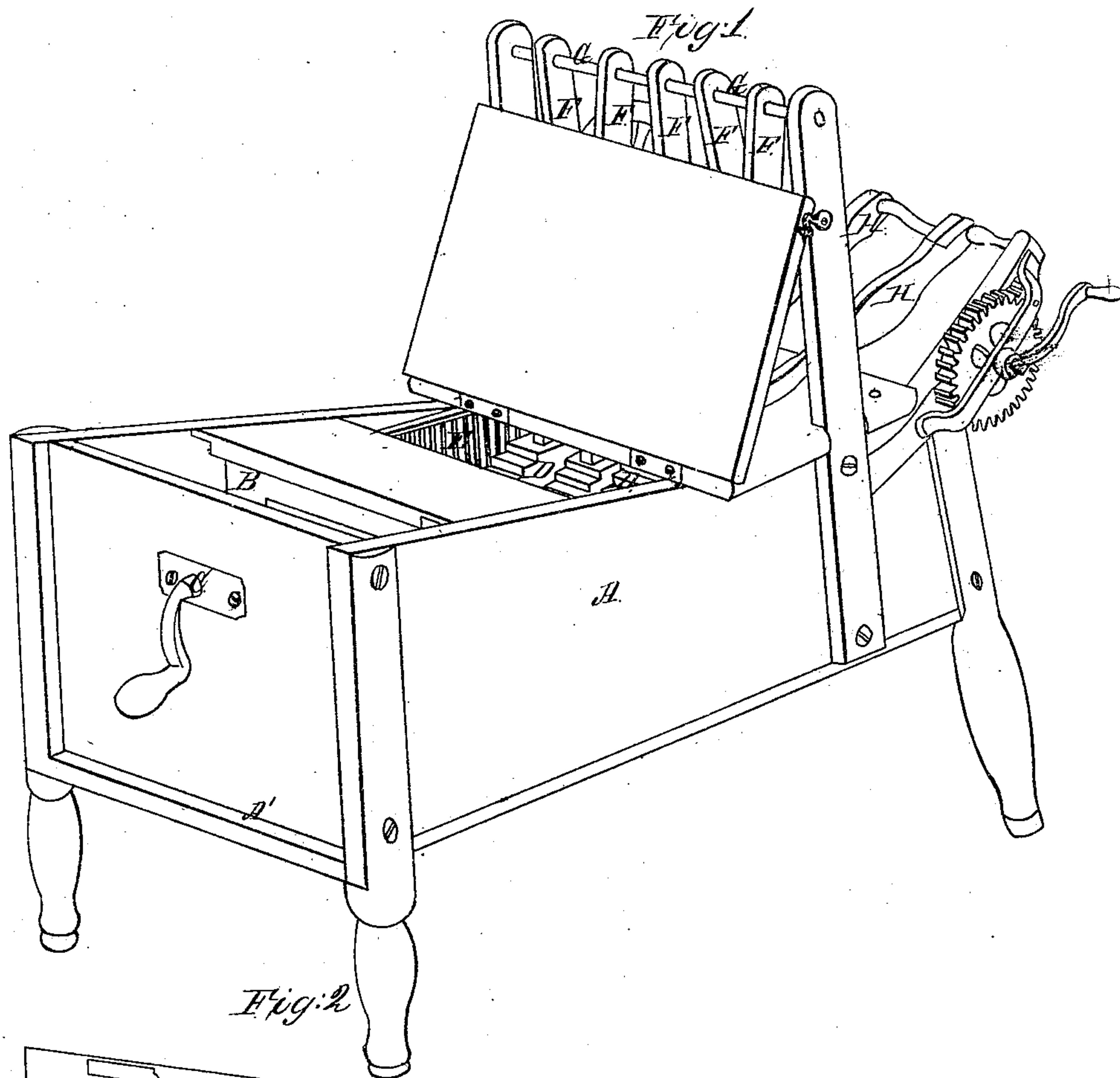


J. Hilborn,
Washing Machine,
No 37,623, *Patented Feb. 10, 1863.*



Witnesses:
Chas. P. Naul.
J. W. Gouley.

Inventor.
Jacob Hilborn

UNITED STATES PATENT OFFICE.

JACOB HILBORN, OF SAN FRANCISCO, CALIFORNIA, ASSIGNOR TO HARRISON
HAIGHT, OF SAME PLACE.

IMPROVED WASHING-MACHINE.

Specification forming part of Letters Patent No. 37,623, dated February 10, 1863.

To all whom it may concern:

Be it known that I, J. HILBORN, of the city and county of San Francisco, State of California, have invented a new and Improved Washing-Machine; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

A is an oblong box, with the bottom inclining downward toward the end marked A'. B is a corrugated wash-board, made of wood or other suitable material. This wash-board is concave upon its upper side, as shown in Figure 2, and can be set in different position in the box by means of the set-screw C. E are upright movable wash-boards, one on either side of the wash-box. D D D are wooden dashers with corrugated upper surfaces. The dashers and upright wash-boards have arms F F F, which play loose upon a cross-beam, G, of a gallow-frame. These arms are provided with pitmen H, worked by a shaft with corresponding cranks, which are so arranged that no two of the dashers, nor either of the upright wash-boards, work forward or backward together, but their relative positions are constantly changing.

Operation: This machine is so simple in its construction that it is scarcely necessary to explain its operation. A few words will suffice. The wash-board B is placed in position with the dashers D D, according as there are more

or less clothes to be washed. Water and soap in sufficient quantities having been put in the box, the clothes are placed between the dashers and wash-boards B, and the cranks are set in motion, by which means the clothes are constantly thrown against the wash-board B, and the movable upright wash-boards E are constantly rubbing against the clothes, a suction is produced which draws a constant current of water through the clothes, being much more effective in its operation than the usual means of washing by hand.

Having thus described the machine and its operation, what I claim as my invention, and for which I desire Letters Patent to issue, is—

1. Making the stationary corrugated concave or wash-board of a washing-machine adjustable, substantially in the manner herein described, so as to adapt the machine to operate on a large or small quantity of clothes.

2. In combination with the stationary wash-board B, the vertical reciprocating wash-boards E, substantially in the manner and for the purposes herein described.

3. The combination of the stationary wash-board B, the vertical reciprocating side wash-boards, E, and pendulum-dashers D, substantially in the manner and for the purpose set forth.

JACOB HILBORN.

Witnesses:

CHAS. R. BOND,
J. W. GOULD.