

J. L. CLIPPINGER.
WASHING-MACHINE.

No. 183,904.

Patented Oct. 31, 1876.

Fig. 1.

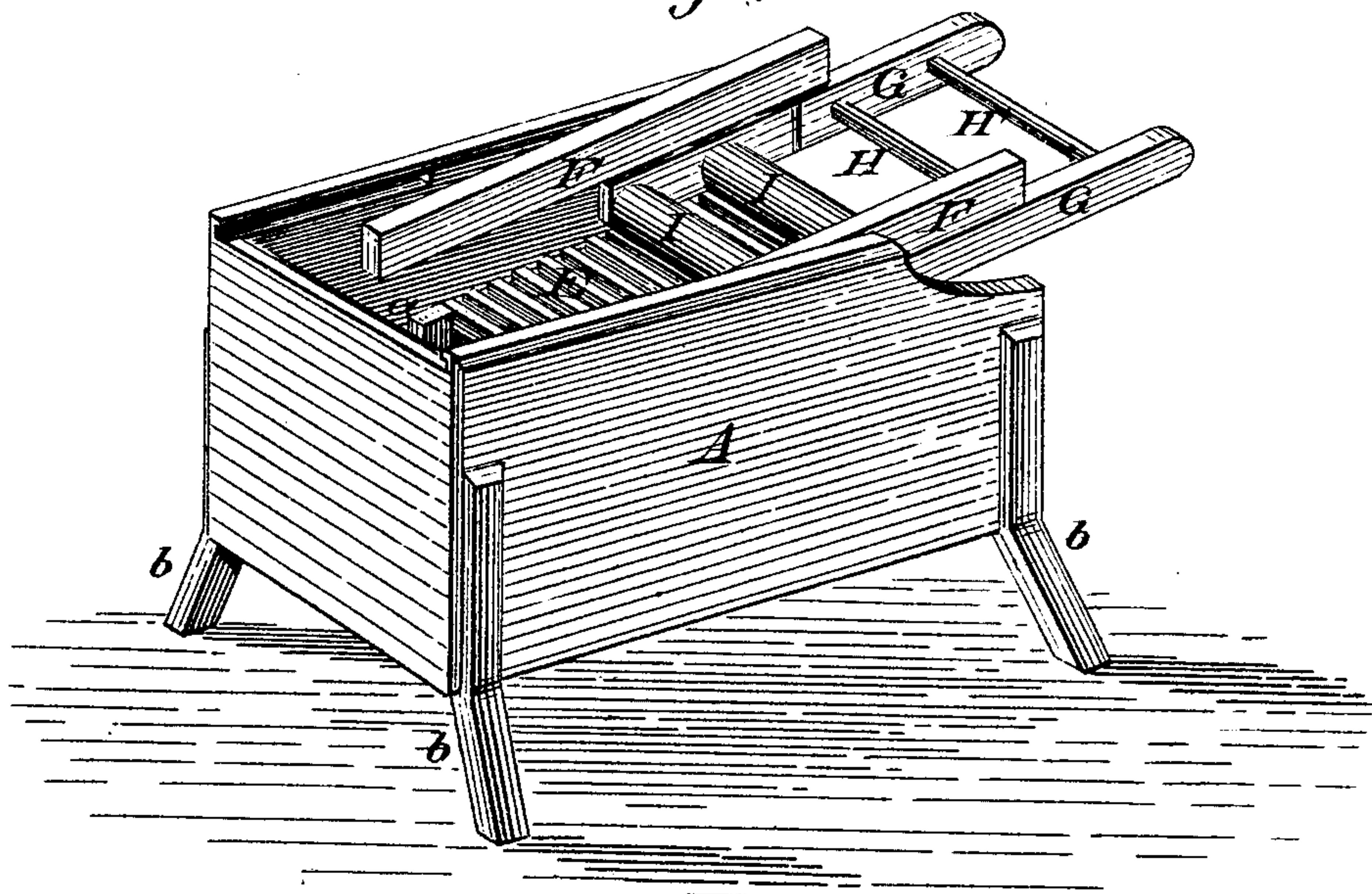


Fig. 2.

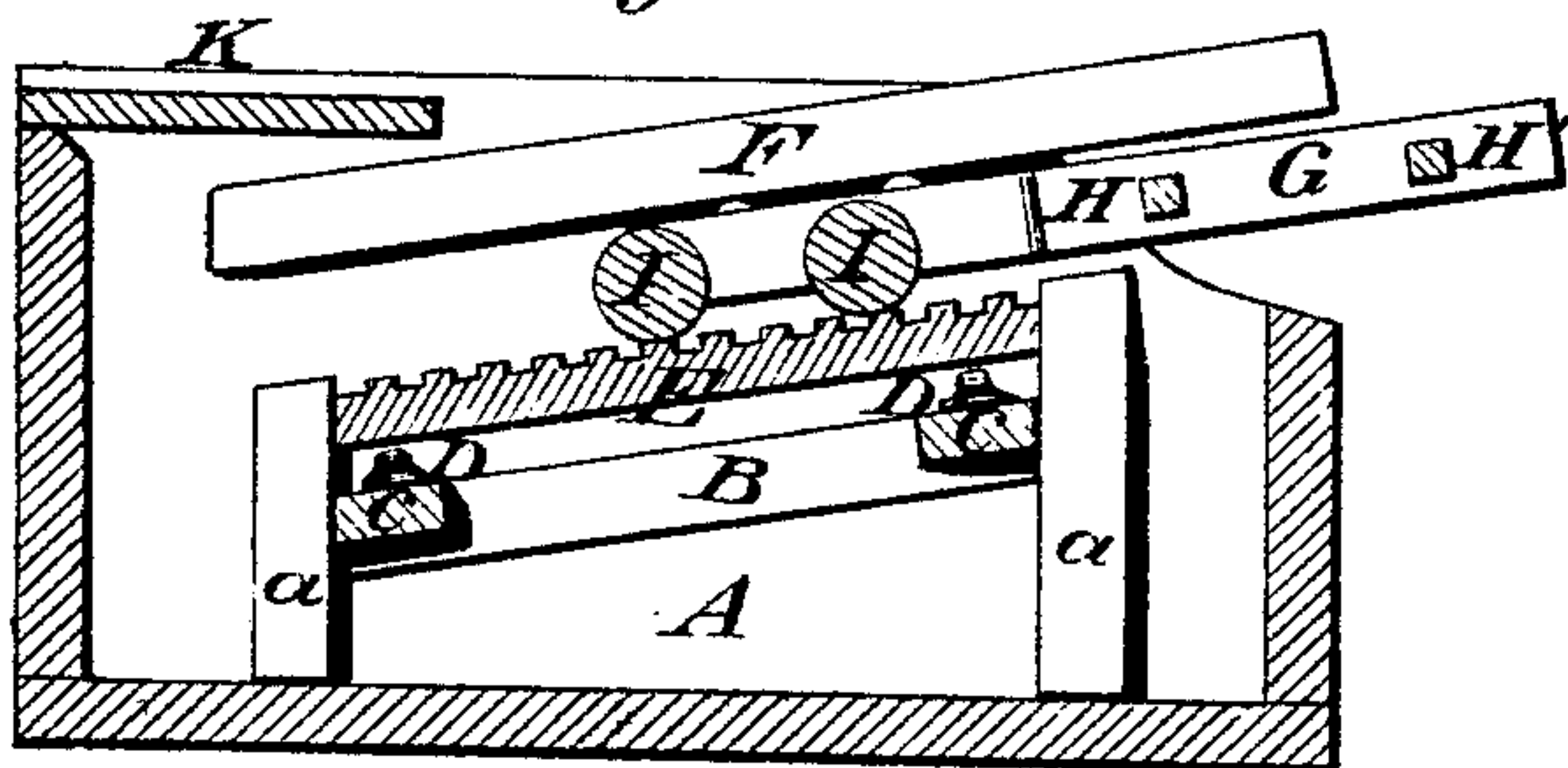


Fig. 3.

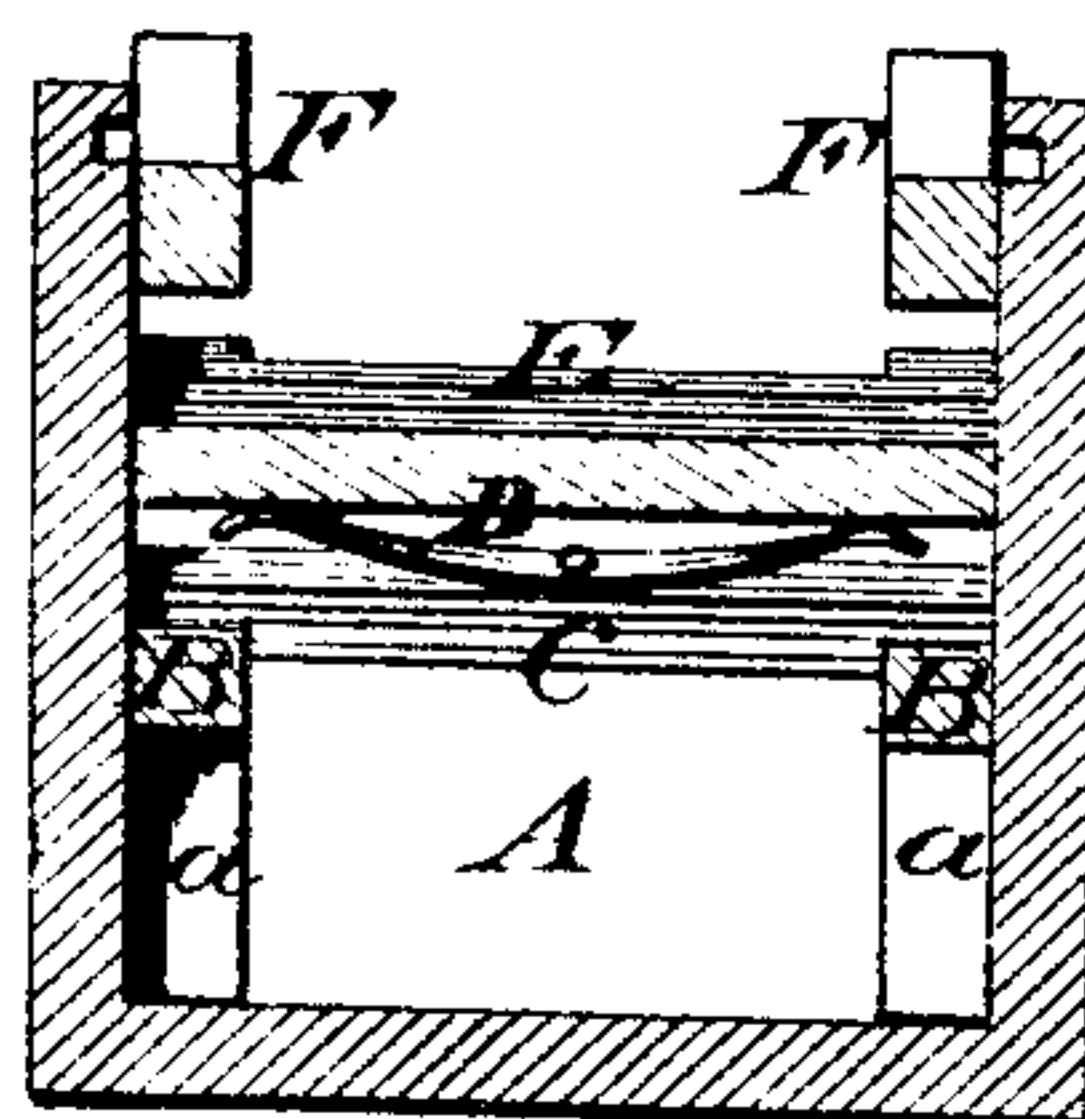
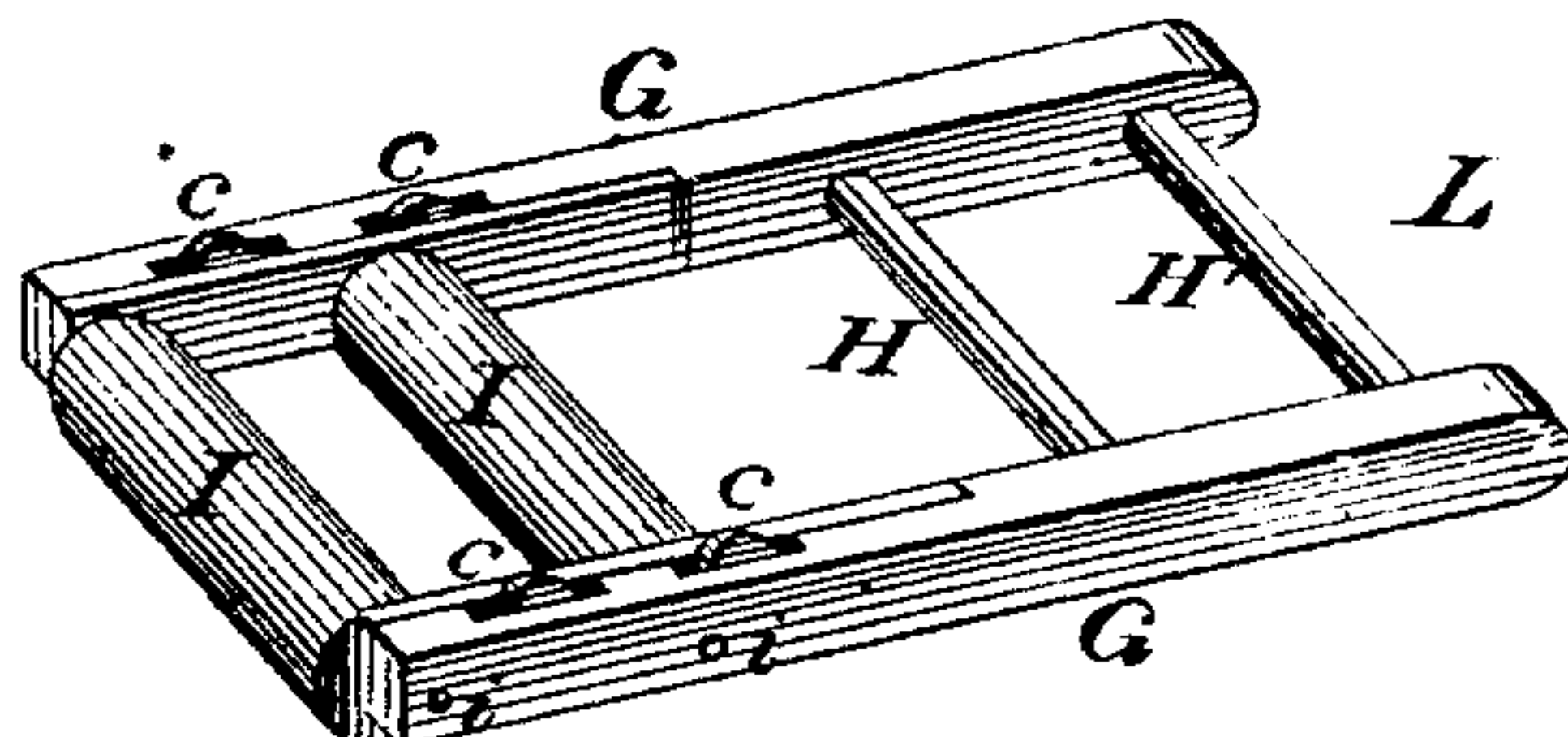


Fig. 4.



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UNITED STATES PATENT OFFICE.

JOSEPH L. CLIPPINGER, OF SALEM, OHIO.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 183,904, dated October 31, 1876; application filed August 16, 1876.

To all whom it may concern:

Be it known that I, J. L. CLIPPINGER, of Salem, in the county of Columbiana and State of Ohio, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view. Fig. 2 is a longitudinal section. Fig. 3 is a cross-section; and Fig. 4 is a perspective view of the roller-frame detached.

Similar letters of reference indicate corresponding parts in all the figures.

This invention relates to machines for washing and cleaning clothes, &c.; and it consists in the combination of a box or oblong tub having a ribbed board arranged inside in an inclined position, with a frame carrying rollers, which effect the rubbing and pounding of the clothes by being carried over the ribbed board (or wash-board) upon which they have been placed, all as hereinafter more fully shown and specified.

In the drawing, A is the tub or box. This is preferably square, and is elevated from the floor by legs *b b*. Inside the tub, upon its sides, are arranged standards *a*, between which are secured the inclined braces B. C C are cross-pieces connecting braces B, and D D are curved springs arranged upon cross-pieces C. Instead of curved springs, coiled or any other kind of springs that are found convenient may, of course, be employed. Upon springs D is placed removably a ribbed board, E, which may be an ordinary wash-board covered with zinc; or it may be simply a wooden board having transverse ribs or ridges, as shown. Above this board, upon the sides of the tub A, are secured wooden or metallic guides F, inclined, and parallel to wash-board E. The construction of the roller-frame shown in Fig. 4, which is used in combination with my invention, is as follows: G G are two parallel wooden strips, of a width about equal to the distance between the top of board E and the guides F in tub A. These are secured to-

gether by means of cross-pieces H H', the latter of which forms the handle by which the apparatus is operated. The rollers I I are also secured between strips G G, as shown, their axles being pivoted at points *i*, below the middle of strips G, so that the rollers, which are of a diameter about equal to the width of the strips, will always project slightly below these. In the upper side of each strip G are sunk two or more casters, *c*, which, when the frame is in use, roll against guides F, thus diminishing the friction, and making the machine more easily operated.

The machine, when in use, may be partly covered by a sliding cover, K, thus preventing the water from being spilled or splashed over.

The method of operating my washing-machine is as follows: The clothes that are to be washed are placed, with water, in the tub A, and the wash-board E is then placed in position upon springs D of cross-pieces C. The roller-frame, which is designated by the letter L, is now inserted between the wash-board E and the guides F, between which it may be rolled or slid forward and backward. The clothes that are to be cleaned are now spread upon board E, rubbed with soap, and operated upon with the rollers, the effect of which is to rub and pound them as well as (or, in fact, better than) might be done by hand. When clean they may be dropped at the lower end of the board E, and a new batch may be placed upon the board.

The advantages of my invention will be readily understood from the foregoing description. The machine is cheap, substantial, and easily operated. The clothes are not subjected to much wear while being washed, nor are they easily torn, on account of the springs D, which allow board E to give way to the rollers as they pass over it, in the manner described. When not in use the various parts forming my machine may be washed and dried separately, thus adding, at the same time, to the convenience and durability of the machine.

I am aware that it is not new, in a washing-machine, to combine a detachable reciprocating roller-frame with a wash-board resting on springs, and I do not, therefore, claim such a combination, broadly; but,

Having thus described my invention, I

claim and desire to secure by Letters Patent of the United States—

1. In a washing-machine constructed substantially as described, the combination of the inclined braces B, guides F, parallel to braces B, detachable cross-pieces C, having springs D, and detachable wash-board E, substantially as and for the purpose hereinbefore set forth.

2. The combination of tub A, having standards *a*, inclined braces B, detachable cross-pieces C, having springs D, and removable

wash-board E, with the roller-frame L, herein described, substantially as and for the purpose hereinbefore set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JOSEPH LEONARD CLIPPINGER.

Witnesses:

JOHN PICKETT,
DAVID CAREY.