E. JENNINGS.

Improved Washing Machine

117636

PATENTED AUG 1 1871

Fig. 1.

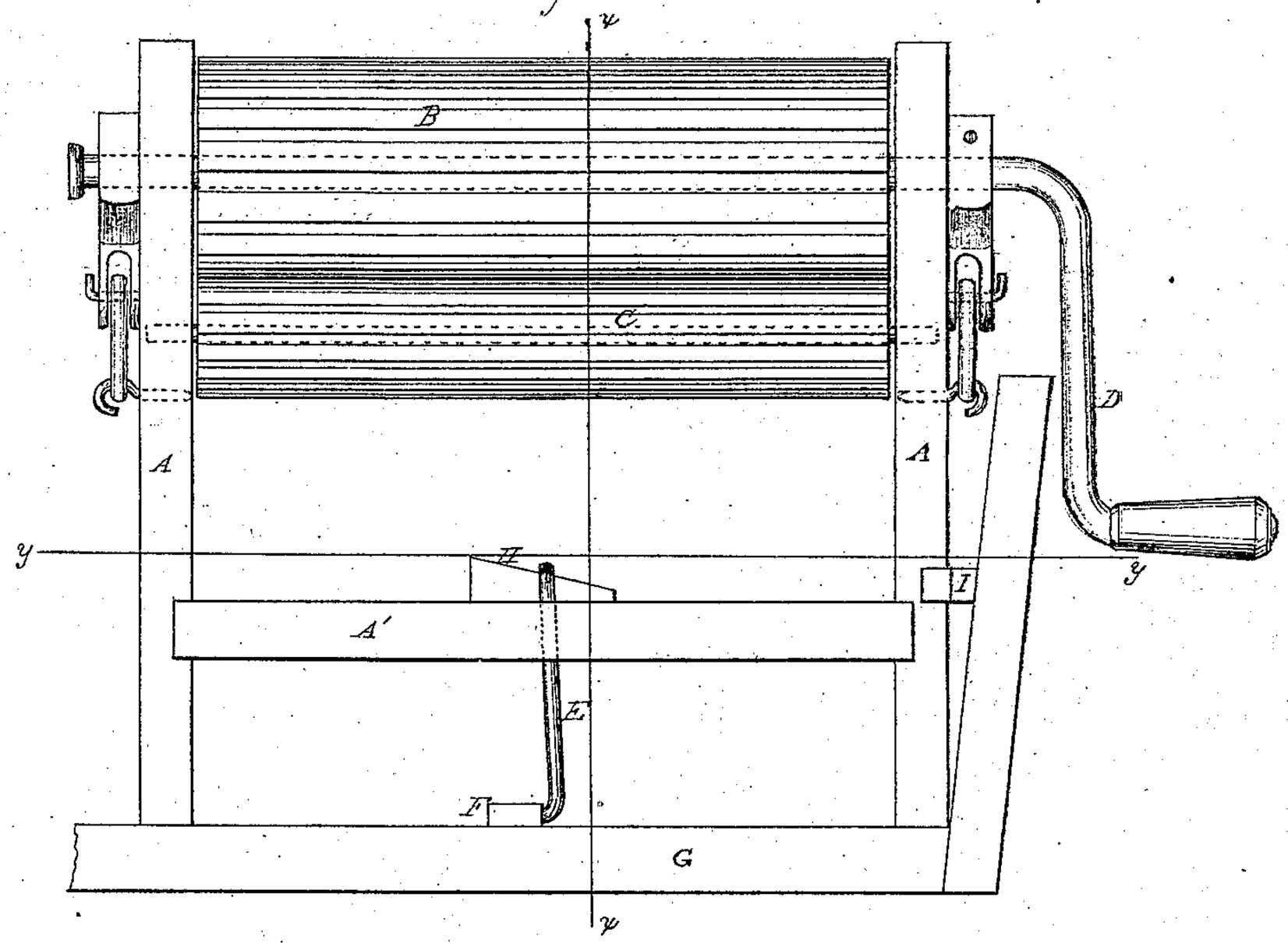


Fig. 2.

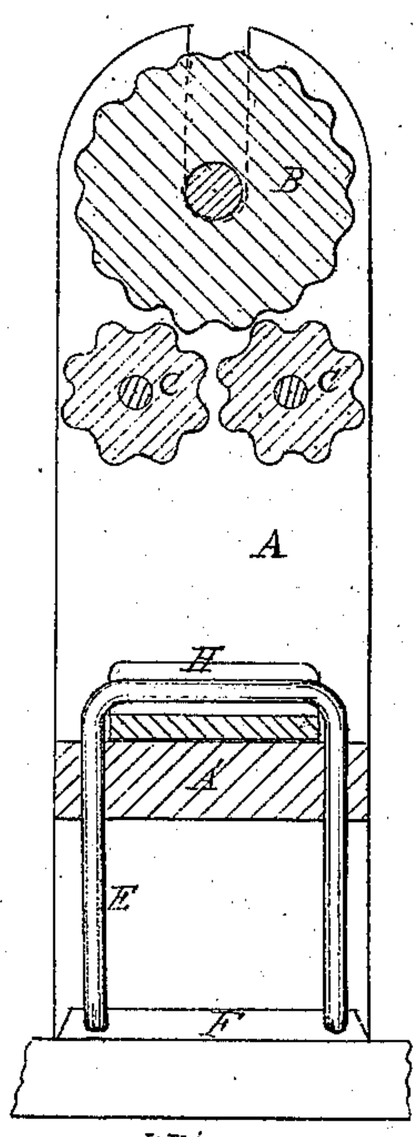
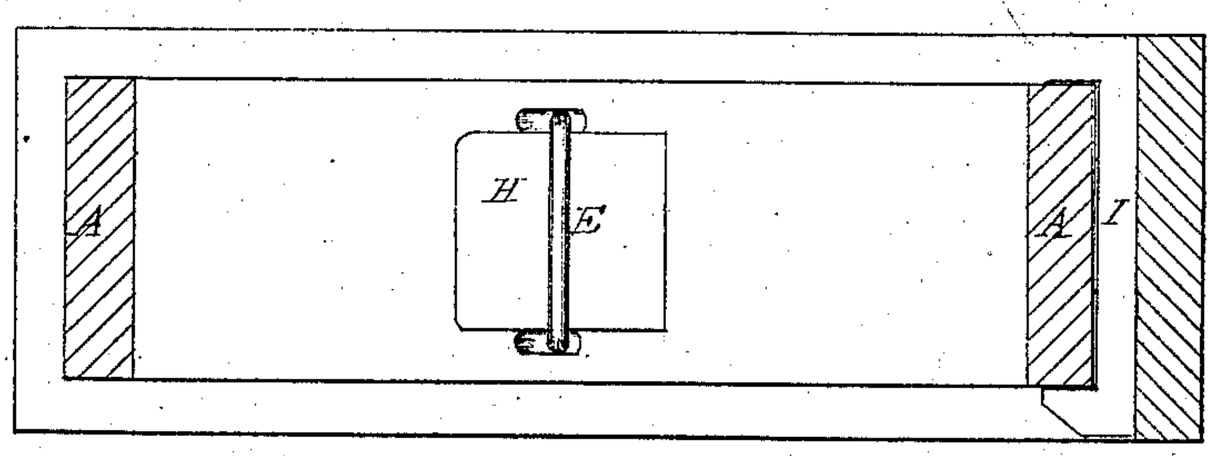


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

EDMUND JENNINGS, OF SHERMAN, NEW YORK.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 117,636, dated August 1, 1871.

To all whom it may concern:

Be it known that I, EDMUND JENNINGS, of Sherman, in the county of Chautauqua and State of New York, have invented an Improved Washing-Machine, of which the following is a specification:

My invention relates to that kind of washing apparatus which is removable from the vessel in which the clothes are washed; and it consists in devices for readily attaching and detaching the same to any reservoir or tub, and in the combination of a series of fluted rollers mounted in a suitable frame with said connecting devices.

Figure 1 is a side elevation of the apparatus and a portion of one side and the bottom of the box or reservoir. Fig. 2 is a transverse vertical section of the same on the line *x x;* and Fig. 3, a horizontal section on the line *y y*, Fig. 1.

As shown in the drawing, A A represent the frame, which consists of two uprights connected together by the transverse piece A′. On the upper portion bearings are provided for the driving-roller B and the counter-rollers C C, between which the garments are passed, motion being imparted to the roller B by the crank D. The roller B is held in its bearings by a yielding connection, which may be constructed of any form or of any material that will give the requisite elasticity, the object being to adjust the space between it and the rollers C C to the unequal thickness of the garments and maintain sufficient pressure.

As the vibration resulting from operating the rollers tends to loosen the connection between the machine and the reservoir, it is the object of my invention to provide a firm and reliable connection, and one which can be used with the least amount of mechanical skill, and which will dispense with the necessity of screws and nuts, which, by the friction of their parts, wear off the galvanized or zinc coating, and expose the iron to rust. To attain this I provide a stirrup, E, the parallel legs of which pass through holes in the transverse piece A′, and the feet are bent to one side at right angles therewith. A block, F, is firmly secured to the bottom G of the reservoir, and provided with holes to receive the feet of the stirrup, and a wedge, H, is driven under the bail or horizontal portion of the stirrup, between it and the frame-piece A′, which holds the entire frame to the bottom G in the firmest manner. Each leg of the stirrup is equivalent to a bolt, and the action of the wedge is to tighten both equally and form a double fastening, which effectually resists both lateral vibration and twisting. In order to give increased stability, I use, in combination with the stirrup, a side clamp, I, attached to the side of the reservoir, and recessed to just admit the upright frame-piece.

The combination of these fastening devices with the simple washing-rollers renders the apparatus at once manageable and effective.

I claim as my invention—

1. The combination and relative arrangement of the frame A, rollers B C C and their spring mechanism, cross-beam A′, stirrup-clamp E, wedge H, and fastening F, all constructed and operating substantially as and for the purpose set forth.

2. In combination with the above, the recessed side clamp I, arranged substantially as and for the purpose set forth.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

EDMUND JENNINGS.

Witnesses:

HENRY DUTTON,

H. HOOKER.