

Hood & Kelly, Washing Machine,

N^o 77,041.

Patented Apr. 21, 1868.

Fig. 1.

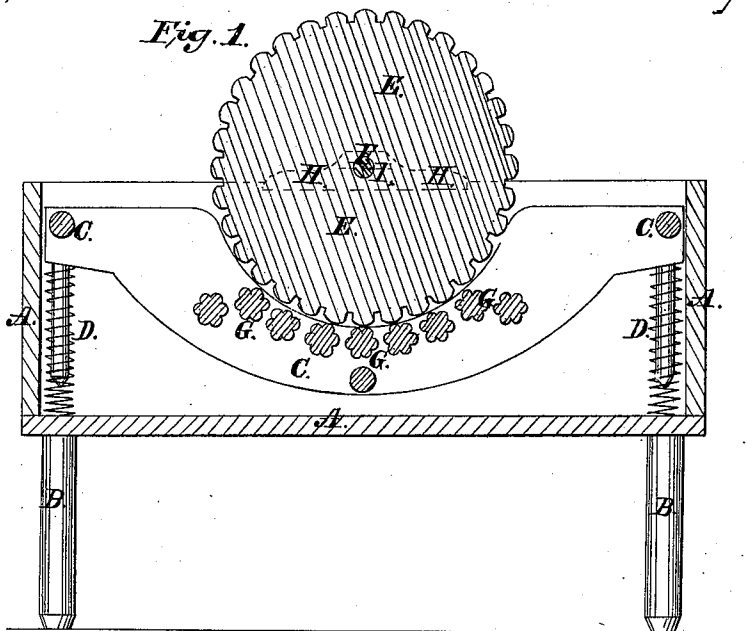


Fig. 4.



Fig. 3.

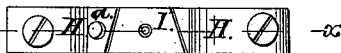
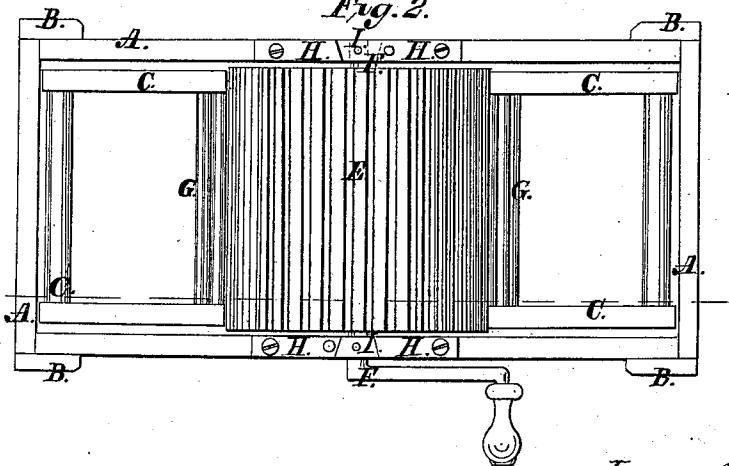


Fig. 2.



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Attest

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United States Patent Office.

GEORGE G. HOOD AND JOHN D. KELLY, OF PROVIDENCE, RHODE ISLAND.

Letters Patent No. 77,041, dated April 21, 1868.

IMPROVED WASHING-MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that we, GEORGE G. HOOD and JOHN D. KELLY, of Providence, in the county of Providence, and State of Rhode Island, have invented a new and improved Washing-Machine; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming a part of this specification.

Figure 1 represents a longitudinal sectional elevation of our improved washing-machine.

Figure 2 is a plan or top view of the same.

Figure 3 is a detail plan view, on an enlarged scale, of the bearing of our drum.

Figure 4 is a vertical section of the same, the plane of section being indicated by the line *x x*, fig. 3.

Similar letters of reference indicate corresponding parts.

This invention relates to a new washing-machine, of that class in which the articles to be washed are manipulated between corrugated rollers, and the invention consists, first, in the general arrangement of the machine, in which, below a revolving corrugated drum, a frame, carrying a series of horizontal corrugated rollers, is arranged, the frame being held up against the drum by means of springs. The drum having fixed bearings, and the rollers beneath it being elastic, owing to the yielding frame in which they are held, the machine will be adaptable for washing articles of any thickness, which will, by means of the springs, be pressed between the drum and rollers, and rubbed by the rotating or oscillating motion of the same. The invention also consists in a new manner of arranging the bearings for the drum. The same are in a fixed plate, the covers being formed by means of blocks that are dove-tailed into the plate, and tapering towards one end, so that they are securely held in the plate, and can still, if desired, be easily removed therefrom, if it is desired to remove the drum.

A, in the drawing, represents a suds-box, of rectangular or other suitable shape, made of wood or other suitable material, and supported by suitable posts or uprights, B B. C is a frame, consisting of horizontal bars, and made of such size that it will fit snugly into the suds-box, and can freely be moved up and down in the same.

The frame C rests upon suitable springs D D, which are arranged upon the bottom of the suds-box, the springs holding the frame up against a corrugated or otherwise roughened drum, E, which is mounted on a shaft, F, that has its bearings in the sides of the suds-box.

G G are horizontal rollers, having their bearings in the frame C, below the drum E, as shown.

The garments to be washed are fed between the rollers G and the drum E, and are, by oscillating or rotating the drum by suitable mechanism, thoroughly agitated.

The shaft F, of the drum, has its bearings in a metal plate, H, which is fastened upon the edges of the side-boards of the suds-box, by means of screws, or otherwise, the shaft lying in a semicircular depression, arranged in the plate H. The covering of the bearings is formed by a dove-tailed tapering block, I, which is fitted into a corresponding slot of the plate H, as shown in figs. 3 and 4. Owing to the double tapering form of the block I, the same will be firmly retained in its place, and will not be apt to work loose. By means of a pin, *a*, it may still be more firmly held.

When the pin is removed, the block I can be easily removed, whereby the taking out of the shaft F and drum E, for cleaning and repairing purposes, is facilitated. The block I may be perforated, as shown, to facilitate the lubricating of the bearings.

We claim as new, and desire to secure by Letters Patent—

The curved frame C, carrying the corrugated rollers G; when provided with the guide-pins, fitting into the spiral springs D, in the four corners of the box, in combination with the tub A, tapering block I, plate H, drum E, and shaft F, as herein shown and described.

GEORGE G. HOOD,
JOHN D. KELLY.

Witnesses:

HENRY MARTIN,
CHARLES SELDEN.