P. Killin,

Washing Machine,

No. 51,460, Patented Dec. 12, 1865.

Fig: 1.

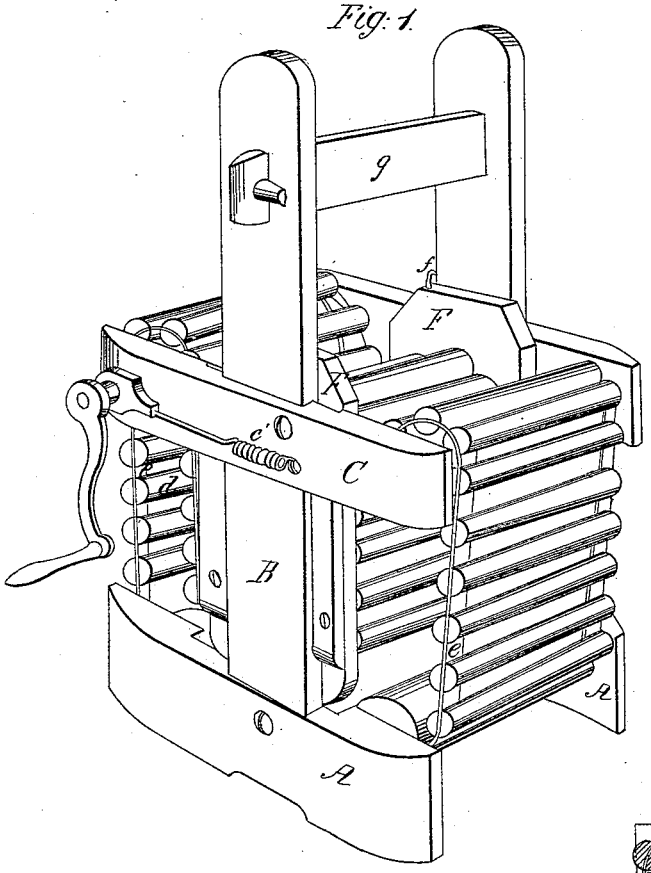


Fig: 3.

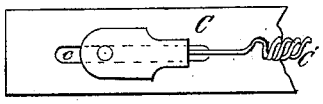
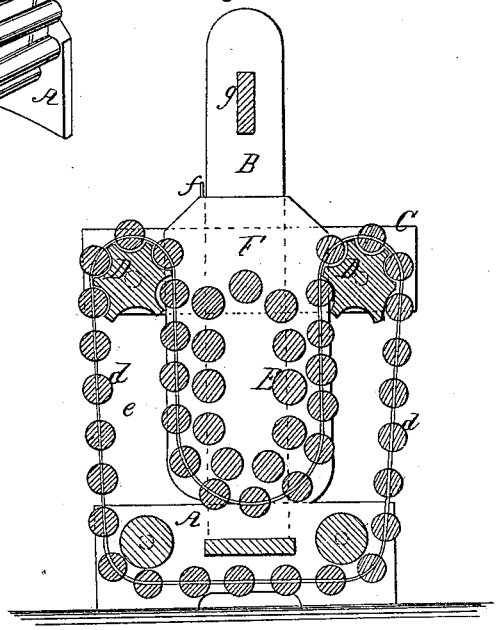


Fig: 2.



Witnesses;
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John Snyder

Inventor;
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UNITED STATES PATENT OFFICE.

PATRICK KILLIN, OF MOUNT HEALTHY, OHIO.

WASHING-MACHINE.

Specification forming part of Letters Patent No. **51,460**, dated December 12, 1865.

To all whom it may concern:

Be it known that I, PATRICK KILLIN, of Mount Healthy, Hamilton county, State of Ohio, have invented a new and useful Improvement in Washing-Machines, of which the following is a full and clear description thereof, reference being had to the accompanying drawings and letters marked thereon.

My invention relates to a suspended wash-board composed of a series of rollers centrally located in the frame of the machine, about which passes endless bands or belts, to which are secured round bars, which press upon the wash-board.

Figure 1 is a perspective view of my improved washing-machine divested of the tub in which it sits. Fig. 2 is a transverse section, showing the wash-board, endless belt, and drums. Fig. 3 is an elevation, in detail, showing the mechanical device for drawing in the feed-roller.

A are base-pieces, to which are secured standards B, which rise vertically from near the center of base-piece A. Secured to standard B are cross-strips C, horizontally placed about midway between the base and top of the standards B. In the extreme ends of the strips C are journals, which bear the driving-pulleys D, which are so corrugated upon their faces as to receive the compressing-bars *d*. These bars are attached at each end to belts *e*, which are endless and pass about the wash-board E. Wash-board E is composed of rollers, which revolve between and are journaled in sliding frames F. These frames F move vertically upon the inside faces of standards B, and are pressed down, so as to come in contact with the compressing-bars *b*, by means of a spring, *f*, connecting with the exterior of the frame. A bar, *g*, passes transversely between the standards, near the top of the machine, to which is secured a wringer.

Operation: The clothes to be washed are inserted between bars *d*, which may be cylindrical in form, and wash-board E, composed of revolving rollers attached to sliding frames E. By means of a crank-handle the drums D are made to revolve. The clothes are drawn down and under the wash-board and up about its opposite side. When the motion of the crank-handle is reversed the clothes are drawn back. This operation is continued until the clothes are cleansed. Should the bulk of clothes be too great, the drums D yield, their journals working in slots *c* in strips C in opsite direction. The sliding frame F has a vertical movement upon standards B, permitting the clothes to pass beneath the wash-board E, the spring *f* sufficing to keep the board well down upon the clothes. The spring *c'* answers the purpose of keeping the crank-handle in place, preventing too great motion to the driving-drum.

Having described my invention, the use and operation of its various parts, I make the following claims:

1. The adjustable wash-board composed of parts E F and spring *f*, constructed as above described, and for the purpose set forth.

2. The endless belt *e*, compressing-bars *d*, driving-drums D, constructed as shown, and for the purpose set forth.

3. The adjustable wash-board E, in arrangement with endless belt *e* and compressing-bars *d*, as described, and for the purpose set forth.

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Witnesses:
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