

D. Broy,

Washing Machine.

No. 106029.

Patented Aug 2, 1870.

Fig. 1.

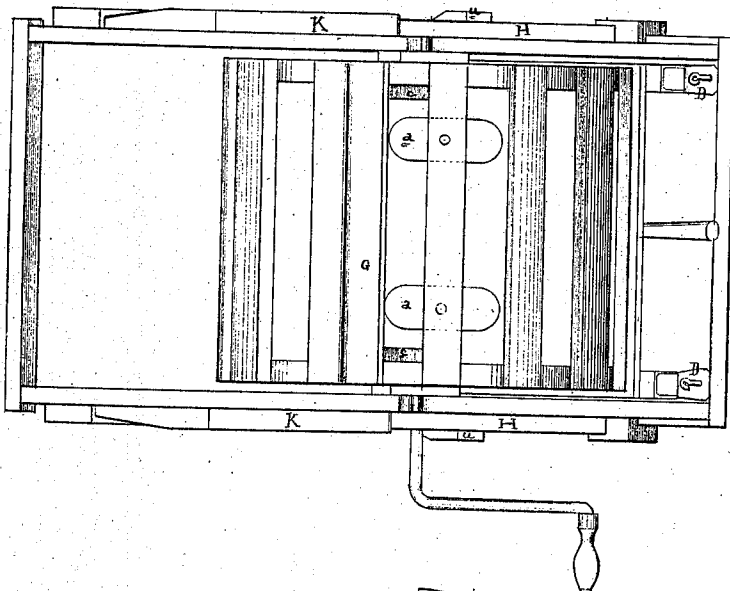
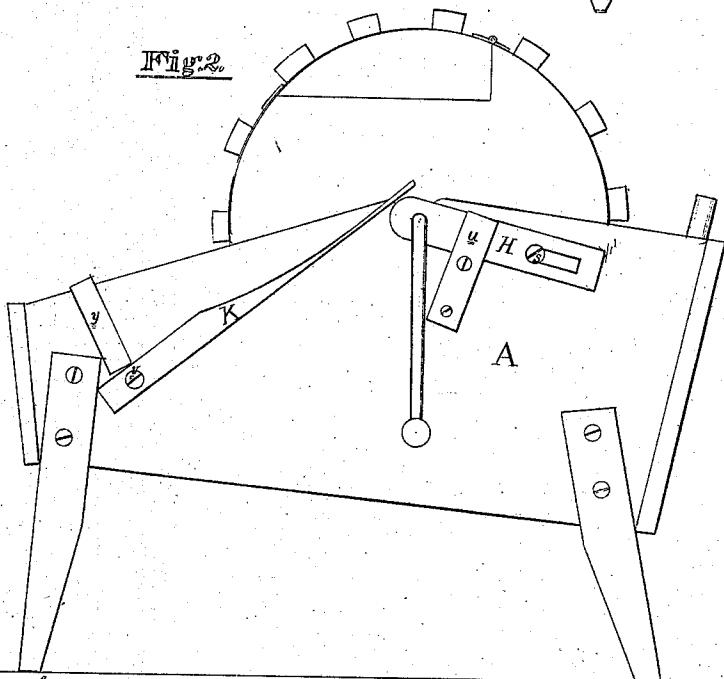


Fig. 2.



Witnesses.  
 Chas. Kinyon  
 B. E. Brewster.

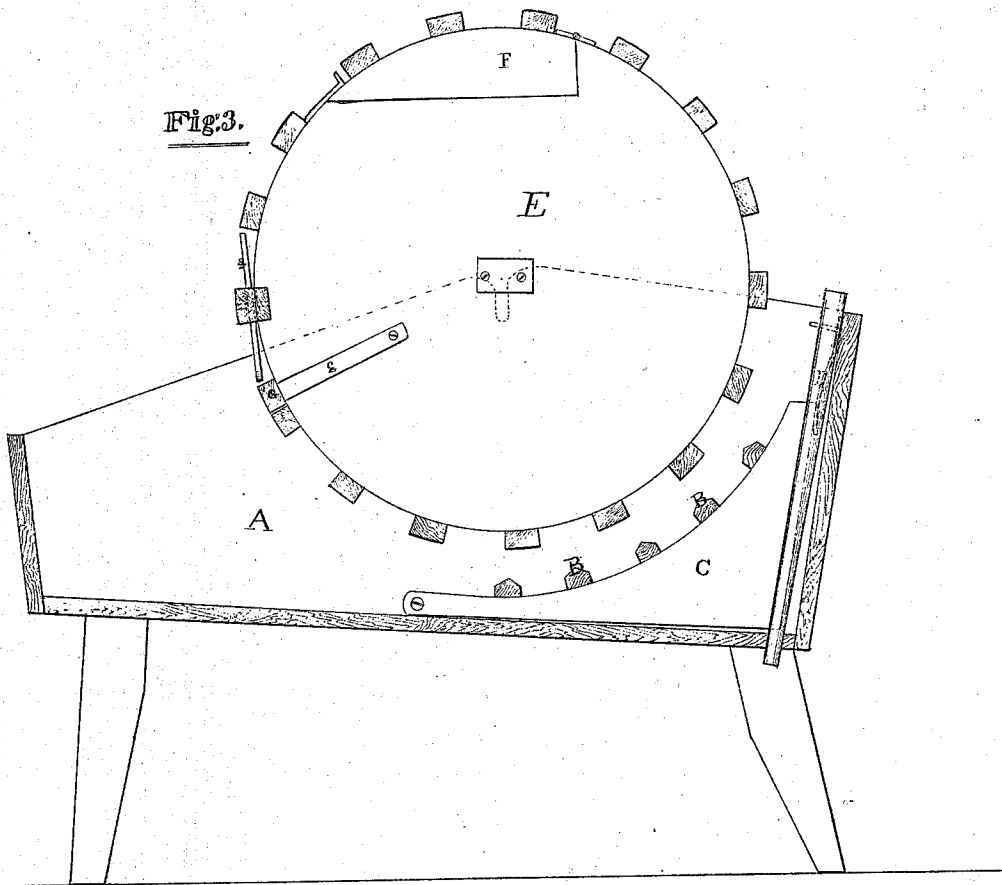
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Washing Machine.

No. 106,029.

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Chas. Kenyon  
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# United States Patent Office.

DANIEL BROY, OF QUINCY, ILLINOIS.

Letters Patent No. 106,029, dated August 2, 1870.

## 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 I, DANIEL BROY, of Quincy, in the county of Adams and State of Illinois, have invented a new and valuable Improvement in Washing-Machines; 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 annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a top view of my invention.

Figure 2 is a side view of the same.

Figure 3 is a central vertical section of the same.

My invention relates to washing-machines, and consists in a novel arrangement of devices, intended to serve as a valuable apparatus for the purpose named.

A of the drawing represents a quadrangular box, arranged upon legs, in such manner that one end shall be lower than the other, as shown, and having slots formed in the top of its side boards, to serve as bearings for the gudgeons of the washing-wheel.

B represents a series of slats, attached to the frame, C, which said frame is pivoted at one end to the sides of the box A, while the other rests against the springs, D, as represented on figs. 1 and 3.

This frame C, with its slats attached, is not allowed to rest upon the bottom of box A, but, by means of its pivot pins and the spring D, it is held above said bottom, as shown, and thereby adapted for springing downward whenever the washing process shall require it, as mentioned hereafter.

The letter E represents a washing-wheel, constructed in the manner shown, and having its bearings in the side-boards of box A.

F represents a hinged door in this wheel, through which the garments may be passed in or out at will.

In one of the slats of this wheel I form two slots, in which I pivot the buttons *a a'*, and extend arms *c* downward from said slot, and pivot the lower ends of said arms to the ends of the wheel, respectively.

The slat above mentioned is marked G on the drawing.

The object gained by the pivoting the downward

arms of said slat, is as follows, to wit: Whenever it becomes necessary to give any particular garment, or portion of a garment, an unusual amount of rubbing, I place said garment or portion thereof between said pivoted slat and the one next adjoining, and then, by turning the buttons *a*, I hold it securely in place until I deem it sufficiently washed by the rotating movements of the wheel E, acting upon and against the yielding frame C. One of the gudgeons of the wheel E is extended, and bent into the form of a crank.

H represents a slotted block, fastened to the side-board of the box by a pin that passes through its slot at *s*, and by the supporting-block *u*, arranged at an obtuse angle therewith, as shown. The gudgeon of the block passes through the end of block H.

The letter K represents a spring, attached to the side of the box, with its upper end resting upon the head of block H.

This spring is held in place by means of its pivot-pin *v*, and the block *y*, arranged as represented in fig. 2.

The object gained by the arrangement of the block H, pin and slot *s*, supporting-block *u*, spring *k*, with its pin and block, is to permit the wheel E to rise upward in its bearings whenever an unusually large garment or aggregation of garments is passing between the slats of the wheel and the slats of the frame C.

Each of the devices last above named is attached to each side of the frame A, and unitedly act with the respective gudgeons of the wheel, in the manner described.

What I claim as my invention, and desire to secure by Letters Patent, is—

The washing-machine herein described, having box A, wheel E, frame C, block H with its slot *s*, springs K, and blocks *u* and *y*, when constructed and arranged substantially as specified.

In testimony that I claim the above, I have hereunto subscribed my name in the presence of two witnesses.

DANIEL BROY.

Witnesses:

L. E. EMMONS,  
M. B. BUTZ.