P. H. COONEY.

WASHING-MACHINE.

No. 188,596. Patented March 20, 1877.

Fig. 1.

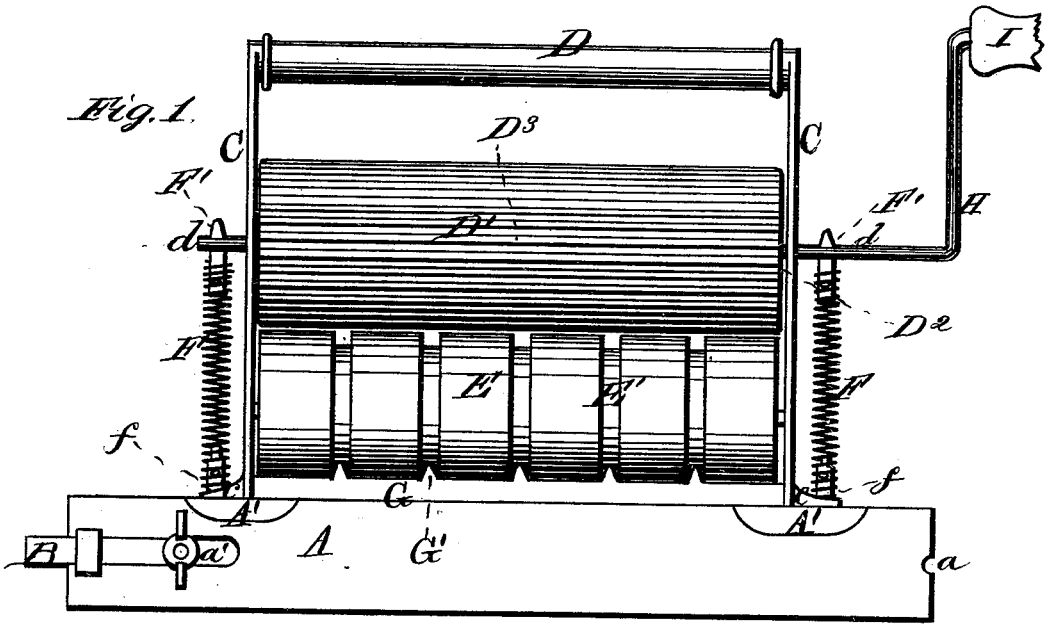


Fig. 2.

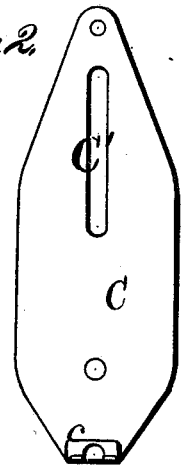


Fig. 3.

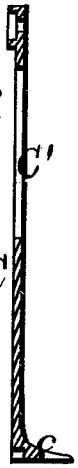


Fig. 4.

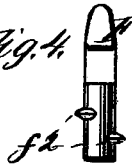


Fig. 5.

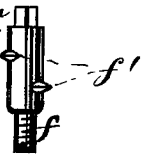


Fig. 6.

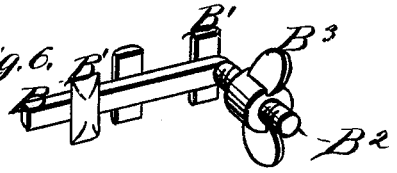
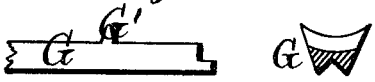


Fig. 7.

Fig. 8



WITNESSES

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PATRICK H. COONEY, OF ERIE, PENNSYLVANIA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **188,596**, dated March 20, 1877; application filed September 2, 1876.

To all whom it may concern:

Be it known that I, PATRICK H. COONEY, of Erie, in the county of Erie and State of Pennsylvania, 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 drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a front elevation of my washing-machine; and Figs. 2, 3, 4, 5, 6, 7, and 8 are detail views of the same.

This invention relates to washing-machines; and it consists in the devices and combinations hereinafter particularly set forth and claimed.

In the annexed drawing, A designates the bed-plate or base-plate of the device, which is notched at one end at *a*, to receive the cross-piece of a bracket, which is rigidly secured to the inside of a tub. The other end of said base-plate is constructed with a longitudinal slot, *a'*, in which works an extension-slide, B, whereby said bed-piece or bed-plate may be adapted to any size of tub.

On the upper edge of bed-plate or base-plate A are secured two flat-surfaced blocks, A' A', to which are rigidly secured the lower lugs or foot-pieces *c c* of two upright metal standards, C C, that are united at their upper ends by bar D. Said bed-piece, standards, and bar constitute the framing of the device. Said foot-pieces *c c* are each recessed to allow screw-threaded fastening-rods or studs *f* (one of which is shown in detail in Fig. 5) to be screwed into suitable sockets in blocks A' A'. Said fastening-studs *f* are each provided with one or more beveled lugs, f^1, which retain the lower end of helical spring F, that operates to hold down main roller D' with a yielding pressure. The upper end of said spring is secured by means of beveled lugs f^2, similar to lugs f^1, to a hook, F', which catches upon one of the gudgeons *d d* of said main pressure-roller D'. Said spring may be readily removed from said hook F' and fastening-stud *f* by unscrewing the beveled lugs f^1 f^2 from the coils of said spring. By screwing the beveled lugs f^2 farther down said coils, the tension of said spring can be increased, and the reverse motion lessens said tension. The arrangement of parts *f*, F, F', and *d* at the opposite ends of the frame is substantially the same. Each of the standards C C is constructed with a vertical slot, C', to permit the vertical reciprocating movement of one of gudgeons *d*.

There are two pressure-rollers, D' and E, both being journaled in said standards C C, the former directly above the latter. Roller D' is the larger, and operates actively to press the cloth against roller E, which remains stationary and passive, excepting only its rotary movement about its fixed axis.

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

1. Base-plate A, provided with block or enlargement A' A', in combination with standards C C, having recessed foot-pieces *c c*, substantially as set forth.

2. Detachable fastening rod or stud *f*, provided with beveled lugs f^1 f^1, substantially as and for the purpose set forth.

3. Detachable fastening rod or stud *f*, provided with beveled lugs f^1 f^1, in combination with the spring F and detachable hook F', having beveled lugs f^2 f^2, substantially as described, and for the purpose set forth.

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

PATRICK H. COONEY.

Witnesses:

DANIEL HANLON,

WM. DONALD.