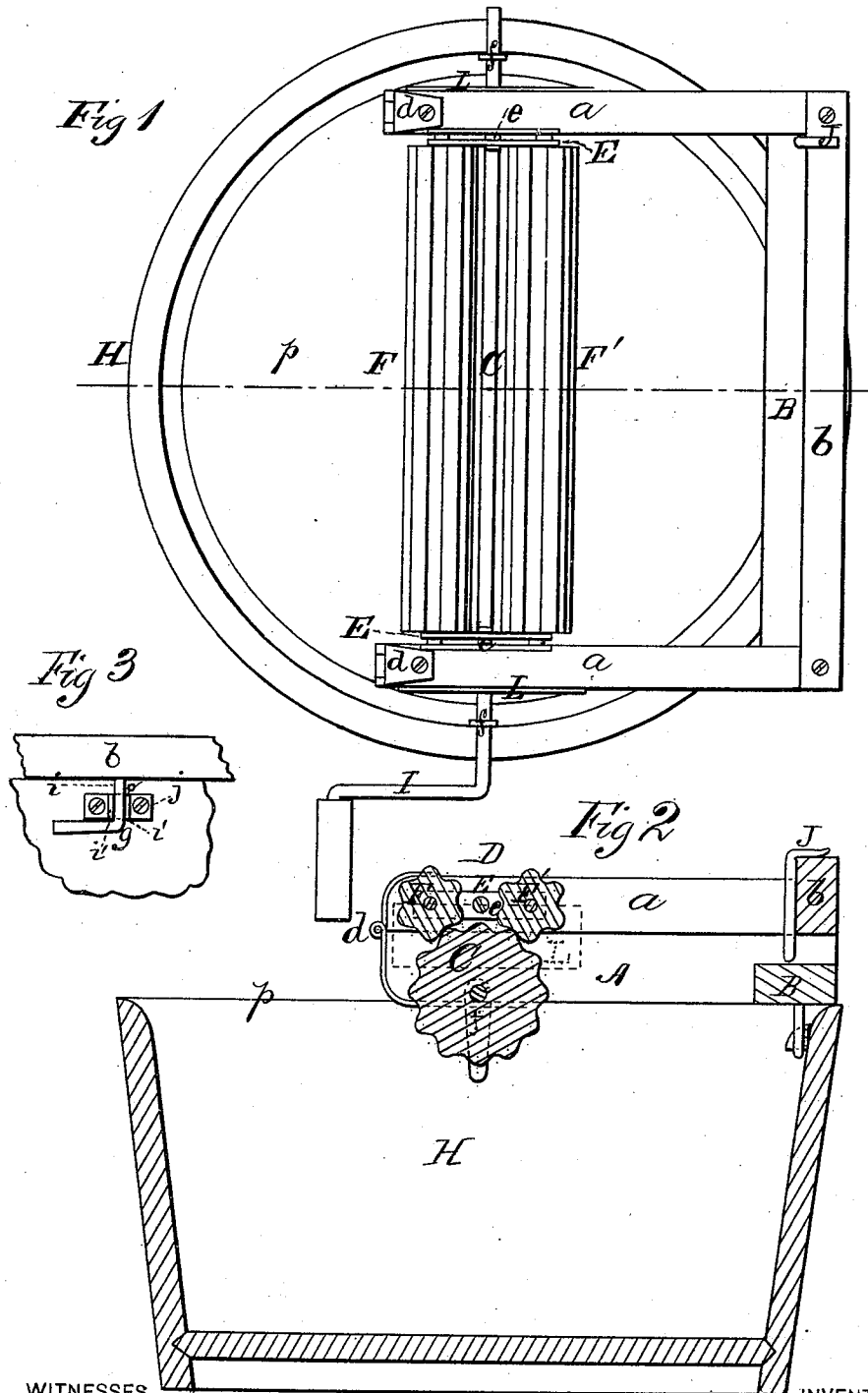


P. A. DOWNER.
Washing-Machine.

No. 169,242.

Patented Oct. 26, 1875.



WITNESSES
Mary E. Utley.
Frank J. Elasi

INVENTOR
Phylenan. A. Downer
Chipman & Son, & Co.
ATTORNEYS

UNITED STATES PATENT OFFICE.

PHYLEMAN A. DOWNER, OF CANTON, ASSIGNOR TO LEWIS CORNELL AND
ENOS SLOSSON, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **169,242**, dated October 26, 1875; application filed
October 8, 1875.

To all whom it may concern:

Be it known that I, PHYLEMAN A. DOWNER, of Canton, in the county of Fulton 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 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 plan view of my washing-machine, and Fig. 2 is a vertical central sectional view of the same. Fig. 3 is a detail view.

This invention relates to improvements in that class of washing-machines for which Letters Patent of the United States were granted to me, bearing date on April 8, 1873, and numbered 137,661, wherein are used two small corrugated rollers, arranged above a large one, and adapted to yield, by means of springs or otherwise, to the bulk of the clothes while being washed. My invention consists in the employment of a catch of a peculiar construction, to prevent both vertical and lateral movement of the frame when attached to the tub, as hereinafter more fully set forth.

In the annexed drawings, A designates the lateral, and B the end, bars of the lower frame of my improved washer, the former of which afford bearings for the journals of a large corrugated roller, C, as shown in Fig. 2. D represents the upper frame, also consisting of lateral and end bars *a b*, which is suitably hinged at *d* to the lower frame, and affords bearings for the journals *e* of two yoke-plates, E, in which are journaled two small corrugated rollers, F F', in such manner that they

shall receive between them the upper portion of the large roller C. H designates a tub, preferably of circular form in horizontal section, upon the upper horizontal edge of which my improved clothes-washer is applied by first engaging the prolonged ends of the journals of large roller C with hooks *f*, rigidly secured to the sides of the tub, then locking it against either lateral or vertical displacement by means of a bent horizontally-vibrating catch, *g*, which projects downwardly from end bar *l* of the upper frame D, the shank *i* of which is received between two lugs, *i'*, projecting inwardly from a metallic plate, *j*, rigidly secured to the vertical sides of the said tub, when the catch *g* is caused to vibrate into the position shown in Fig. 3, with its bent end hooked under either of the lugs *i'*.

The large corrugated roller is actuated by means of a crank-arm, I, which may be a continuation of one of the journals of the said roller, or a separate part therefrom, as is generally the case.

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

The catch *g*, bent right-angularly, and attached to the hinged frame *a b*, in combination with the plate *j*, having lugs *i'* and recess *o*, whereby both vertical and lateral displacement of the roller-frame is prevented, substantially as described.

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

PHYLEMAN A. DOWNER.

Witnesses:

P. B. WARNER,
C. L. AMES.