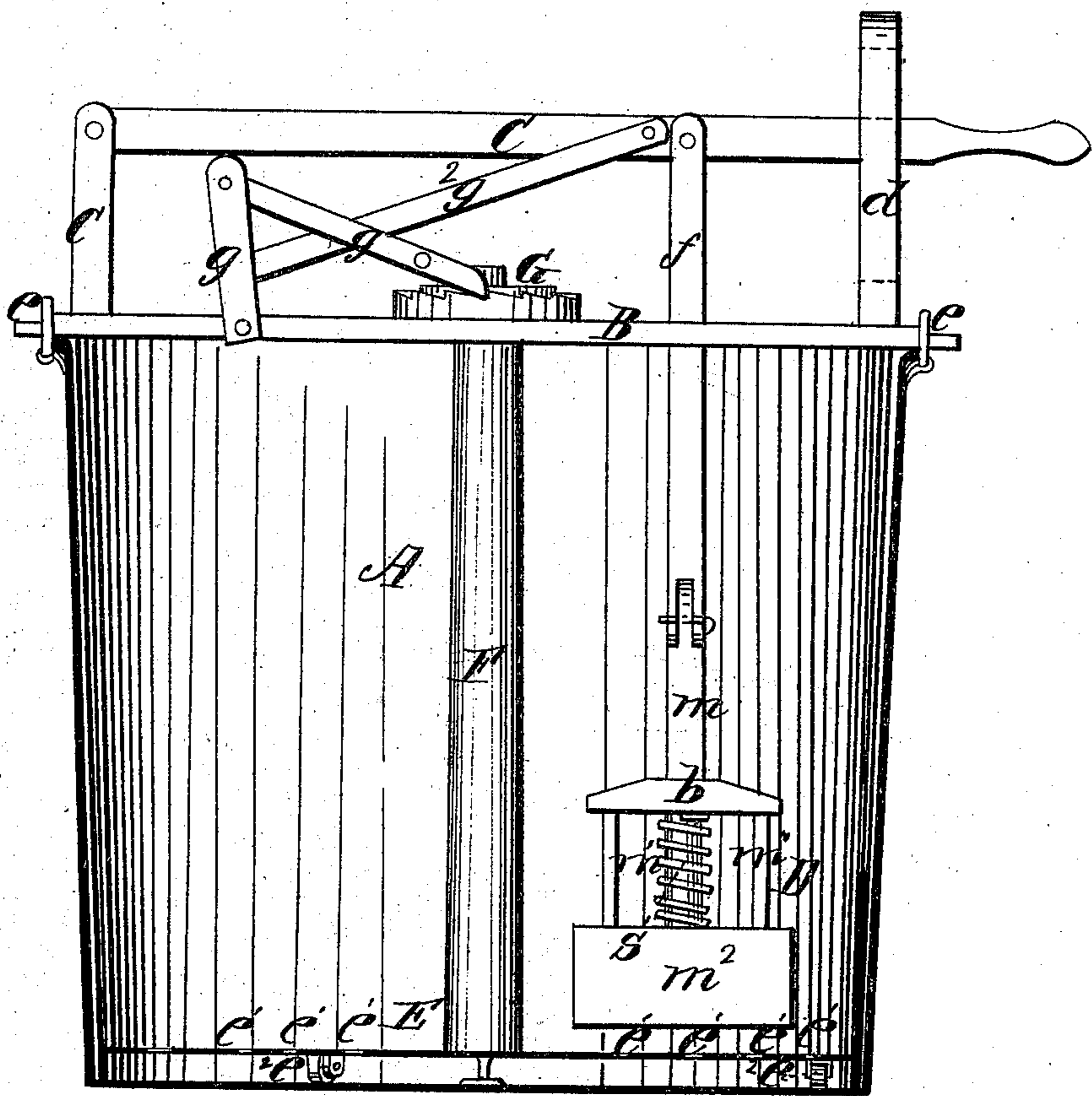


Bailey & Blanchard,

Washing Machine.

No. 87,017.

Patented Mar. 9. 1869.



Witnesses

John A. Ellis
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United States Patent Office.

T. BAILEY AND VIRGIL W. BLANCHARD, OF BRIDPORT, VERMONT.

Letters Patent No. 87,617, dated March 9, 1869.

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, T. BAILEY and VIRGIL W. BLANCHARD, of Bridport, in the county of Addison, and State of Vermont, have invented certain new and useful Improvements in Washing-Machine; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification, and in which is represented a view of our washing-machine, with a section taken through the tub, showing the internal arrangement.

Our invention consists in the employment, in a washing-machine, of a perforated diaphragm, revolving on rollers, in connection with a spring clothes-pounder, for the purpose of injecting the dirty water from the clothes, through said perforations, into the bottom of the tub.

To enable others skilled in the art to which our invention relates, to make and employ the same, we will now proceed to describe its construction and operation.

In the accompanying drawing—

A represents the tub, upon which is placed a bar or support, B, secured thereto by means of clips, *e e*.

c designates a standard mortised into the bar or support B, at one end, and provided at its upper end with a slot, into which is pivoted a lever, C, having its opposite end passing through a slotted upright bar or standard, *d*, secured to the support B, and also provided with a handle, by which it may be operated.

Pivoted at its slotted end to the lever C, is an arm or bar, *f*, to the lower-end of which is hinged another bar, *m*, made rounding on its lower portion, and provided thereat with a spiral spring, *s*, to be referred to hereafter.

D is the spring clothes-pounder, which consists of the shoulder or cross-piece *b*, through which passes the bar *m*, it also being secured thereto.

To the under side of this shoulder, on each side of bar *m*, is secured a bar or rod, *m*¹, passing through openings in the squeezer, or block, *m*², which is secured to the cross-piece *b*, by means of the spring *s*, which will allow it to slide up and down on the rods *m*¹ and bar *m*, when operated so as to inject the dirty water

from the clothes through the perforated diaphragm E into the bottom of the tub.

E is the diaphragm, which is furnished with openings, *e*¹ *e*¹, and made to revolve on rollers, *e*² *e*², secured to its lower side.

F is a vertical shaft, pivoted at its lower end in the bottom of tub A, and, passing up through support B, is then provided with a ratchet-wheel, G, which is operated by a pawl, *g*, pivoted in the upper slotted end of a standard, *g*¹, secured to the side of support B.

*g*² is a bar, secured at one end to bar *g*¹, and fastened at its opposite end to lever C.

By means of the vertical shaft F, which is attached to diaphragm E, motion may be given to said diaphragm.

The operation of our machine is as follows:

The clothes or articles to be washed being inserted, with a sufficient quantity of water to cleanse them, into the tub, and the clothes resting on the diaphragm E, motion will be given to the lever C, which will cause the injector to have an up-and-down motion, pressing against the articles being washed, while the diaphragm E will have a revolving motion, so as to present the surface of the clothes to be washed, to the action of the injector, and thus cause the dirty water from the clothes to be injected, through the perforations in the diaphragm E, into the bottom of the tub, and thus separating the dirty water from the water in which the clothes are being washed.

We do not claim the employment of a spring-pounder in washing-machines; but

What we do claim as our invention, and desire to secure by Letters Patent, is—

In a washing-machine, the tub A, diaphragm E, shaft F, support B, ratchet-wheel G, pawl *g*, bar *g*¹, arm or bar *g*², lever C, uprights *c* and *d*, arm *f*, and spring clothes-pounder D, all constructed, arranged, and operated substantially as and for the purpose described.

In testimony that we claim the foregoing as our own, we affix our signatures, in presence of two witnesses.

T. BAILEY.

Witnesses: VIRGIL W. BLANCHARD.

SHELDON SMITH,
JAMES CARPENTER.