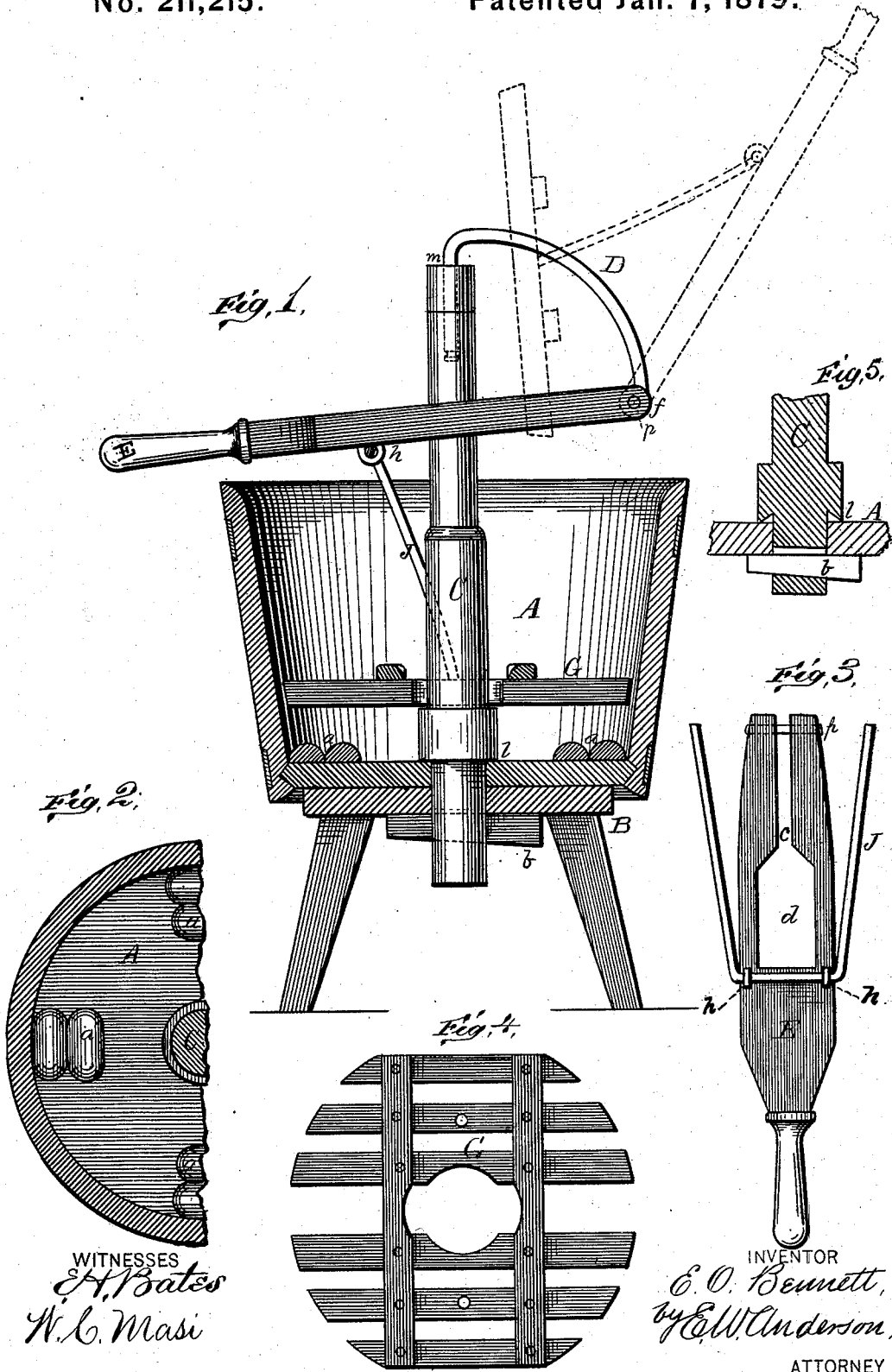


E. O. BENNETT.
Washing-Machine.

No. 211,215.

Patented Jan. 7, 1879.



WITNESSES
E. H. Bates
W. C. Masi

INVENTOR
E. O. Bennett,
by E. W. Anderson,
ATTORNEY

UNITED STATES PATENT OFFICE.

ETHAN O. BENNETT, OF BRIGHTON, IOWA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 211,215, dated January 7, 1879; application filed June 8, 1878.

To all whom it may concern:

Be it known that I, ETHAN O. BENNETT, of Brighton, in the county of Washington and State of Iowa, 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 partial vertical section of my invention. Fig. 2 is a partial horizontal section of the tub and post. Figs. 3, 4, and 5 are detail views thereof.

The nature of the invention consists in the construction and novel arrangements of parts, as will be hereinafter shown and described.

In the annexed drawings, the letter A designates an ordinary suds-tub having raised bearings *a* around its bottom, said bearings being rounded in the direction of movement of the rubber, as shown in the drawings. The letter B designates a stand upon which the tub is adapted to be supported.

The tub A, as well as the stand B, is perforated centrally, as shown, for the passage of the standard or post C, which is slotted in its lower portion to receive a wedge-shaped key, *b*, which serves to hold the tub and stand firmly together. The wedge or key also serves to force the concave shoulder or ledge *l* of the post against the bottom of the tub around the center hole, through which the post passes, thereby making the joint water-tight.

The upper end of this post is perforated to receive the vertical portion *m* of the metallic arm D, the lower end of which portion *m* is grooved and pivoted in the perforation of the post by means of a pin passing through from the outside of the post and engaging the groove.

The free end of the arm D extends radially from the post, and is curved downward and then journaled in a slot, *c*, at the end of an operating-lever, E, as shown at *f*. The slot *c* extends rearward toward the handle end of the lever, and terminates in an enlargement, *d*, adapted to receive the standard.

In the construction illustrated, the lever is

bifurcated to form the slot, the looped end of the arm D being attached by a pivot-pin, *p*.

It will be seen that by means of the arm D, which is vertically pivoted in the post at one end, and by having its other end horizontally journaled in the end of the lever-slot, the lever has a vertical vibratory as well as horizontal motion of revolution, and when in operation serves to impart like movements to a rubber, G, seated in the bottom of the suds-tub, and connected to said lever.

J designates a U-shaped connection or hanger, preferably of metal, the upper or transverse portion of which is pivoted to the broad under side of the lever by small staples *h*, as shown, while its lower ends are fastened in the rubber G. This rubber is composed of a number of slats arranged parallel with one another, and secured by cross-slats fastened thereon at each side of the central portion, in which is an enlarged space or opening for the passage of the center post.

In this construction the rubber can be readily drawn out of the tub, when clothes are to be placed therein or removed, by raising the handle end of the lever, which will pass over the end of the post and along the arm D, because of the slot of the lever and its enlargement, drawing the rubber up and over the post on the arm D, which, being curved downward, as shown, engages with the cross-bar of the rubber, which forms a stop or bearing, and holding the rubber up until it is desired to replace it in the tub.

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

In a washing-machine, the center post C, its vertically-pivoted curved arm D, the longitudinally-slotted lever E, and the centrally-open rubber G, connected to said lever by a hanger, J, and adapted to pass out of the tub over the end of said post and rest on said arm, substantially as specified.

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

ETHAN O. BENNETT.

Witnesses:

W. I. PURNELL,
WM. D. HOUGHLAND.