

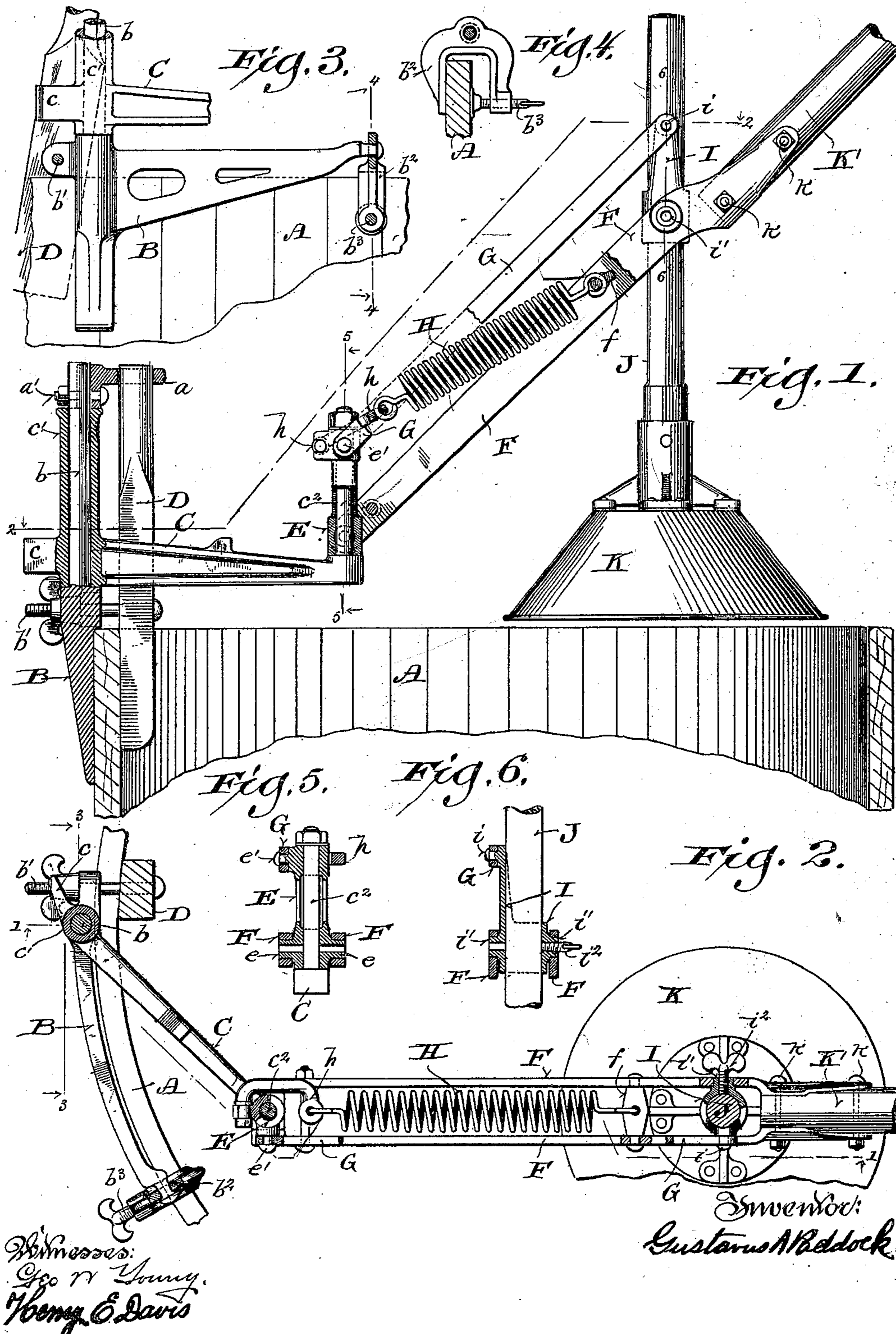
No. 683,974.

Patented Oct. 8, 1901.

G. A. PADDOCK.
WASHING MACHINE.

(Application filed July 21, 1894.)

(No Model.)



UNITED STATES PATENT OFFICE.

GUSTAVUS A. PADDOCK, OF BEAVERDAM, WISCONSIN.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 683,974, dated October 8, 1901.

Application filed July 21, 1894. Serial No. 518,192. (No model.)

To all whom it may concern:

Be it known that I, GUSTAVUS A. PADDOCK, a citizen of the United States, residing at Beaverdam, in the county of Dodge and State of Wisconsin, have invented a new and useful Improvement in Washing-Machines, of which the following is a specification.

My invention relates to that class of machines in which a cup or pounder is used, and is illustrated in the accompanying drawings, in which—

Figure 1 is a view of the machine and portion of a tub, partly in side elevation and partly in section. Fig. 2 is a top or plan view of the same on the section-line 2 2, Fig. 1. Fig. 3 is a detail view of the supporting-frame. Fig. 4 is a side view of the clamp b^2 . Fig. 5 is a section on line 5 5, Fig. 1; and Fig. 6 is a section on line 6 6, Fig. 1.

A represents the tub, and B the supporting-frame. Said frame has an arm reaching down outside the tub, an upright supporting-standard b , a short arm or lug for securing the bolt b' , and a long horizontal arm on which the clamp b^2 is loosely held. A ring a is made integral with a block and is secured to the upper part of the standard b by a bolt a' . An upright standard D, preferably of wood, is secured to the frame B by a bolt b' , its upper part resting in the ring a and its lower part bearing against the inside of the tub. A horizontal arm C is provided with an upright c' , an upright supporting-standard c^2 , and a lug c . The upright c' is in the form of a sleeve and is mounted upon the standard b , and the lug c by striking against the standard D prevents the arm C from swinging too far outside the tub. A sleeve E is mounted upon the upright c^2 , and upon opposite sides at its lower part is provided with bearings e , on which are pivoted the bars F, said bars being secured at the other end to the handle K' by the bolts k , the bars and handle together forming the operating-lever. The sleeve E is not entirely closed, thus for lightness leaving the upright c^2 visible part of the way, and the sleeve c' can, if preferred, be made in the same manner. A hollow staff-clamp I is secured between said bars by hollow bearings i' , each of which rests in a circular opening in one of the bars. Said staff-clamp extends

upward and is furnished with a guide-pin i , on which the guide-rod G rests, the other end of said rod resting upon a similar pin e' upon the sleeve E. The upper front part of the sleeve E furnishes a bearing-place for a hook h , to the rear end of which is attached the spiral extension-spring H, the rear end of which is secured to a small casting f , which has bearing in the bars F.

For use the machine is placed on the tub, as shown, and the thumb-screw b^3 and the thumb-nut on the bolt b' being tightened hold it in place. When the staff J of the pounder K is run through the staff-clamp I, it can be adjusted and held at any desired height by means of the thumb-screw i^2 , for which a thread is cut in one of the hollow bearings i' .

I am aware that washing-machines have been made with a horizontally-swinging arm supporting a pounder, said arm having a slot through which the supporting-upright passed and being kept in a horizontal position only by a large washer secured to the top of said upright. In my machine the sleeve c' has a perfect hinged bearing upon the standard b , thus enabling the operator to easily swing the arm around, even when strain is brought upon it by the spring. Washing-machines have also been made with a pounder-staff working only in the center of the tub and supported by a spring. Therefore I do not broadly claim either a horizontally-swinging arm or the supporting-spring; but

I do claim—

1. In a washing-machine, a frame provided with an upright standard, a sleeve mounted on said upright; a horizontally-swinging arm rigidly secured to said sleeve and provided at its free end with an upright, a sleeve mounted upon said upright and provided with bearings, an operating-lever pivoted to said bearings, a staff-clamp pivoted to said lever, a guide-rod connecting said sleeve and staff-clamp, a spring adapted to lift said lever and staff-clamp, and a pounder secured to said staff-clamp.

2. In a washing-machine an upright pivoted to a suitable bearing, a horizontally-swinging arm rigidly secured to said upright and bearing upon its free end another up-

right, a sleeve mounted upon the latter and provided with bearing for an operating-lever pivoted thereto, a staff-clamp pivoted to said lever, a guide-rod connecting said staff-clamp
5 to said sleeve, a link fitted to said sleeve, a spring attached to said link and suitably secured to the rearward part of said lever and adapted to lift said lever, and a pounder secured to said staff-clamp.

GUSTAVUS A. PADDOCK.

Witnesses:

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