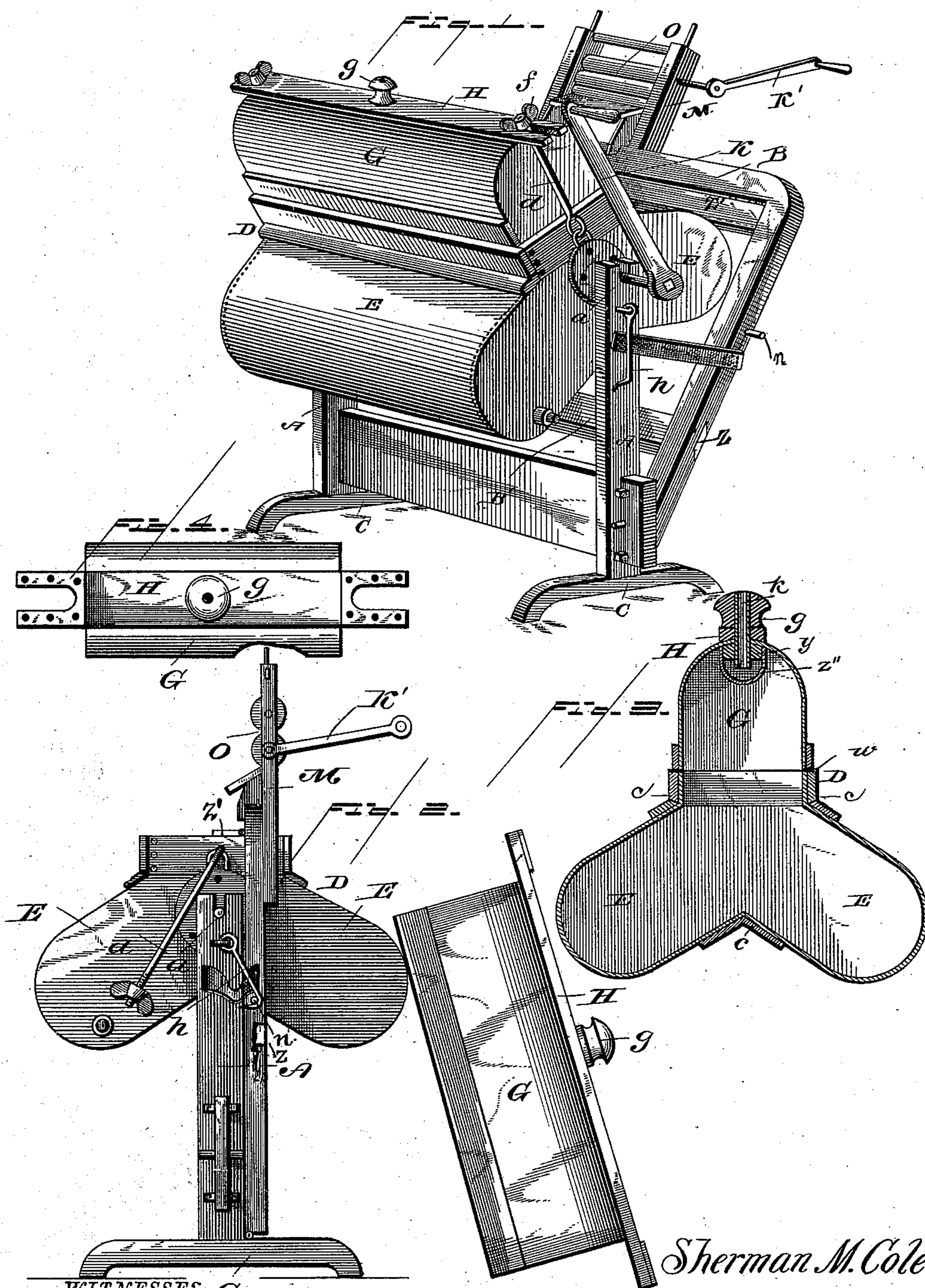


(No Model.)

S. M. COLE.
WASHING MACHINE.

No. 400,637.

Patented Apr. 2, 1889.



WITNESSES
J. Ed. Turpin

Sherman M. Cole
INVENTOR
By, Smith & Sheehy.
Attorneys

UNITED STATES PATENT OFFICE.

SHERMAN M. COLE, OF ANAMOSA, IOWA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 400,637, dated April 2, 1889.

Application filed November 10, 1887. Serial No. 254,798. (No model.)

To all whom it may concern:

Be it known that I, SHERMAN M. COLE, a citizen of the United States, residing at Anamosa, in the county of Jones and State of Iowa, have
5 invented certain new and useful Improvements in Washing-Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable
10 others skilled in the art to which it appertains to make and use the same.

My invention relates to washing-machines; and it consists in the novel construction of parts hereinafter specified.

The nature of the invention will be fully
15 understood from the following description and claim, when taken in connection with the accompanying drawings, in which—

Figure 1 is a perspective view of a washing-machine embodying my improvements.
20 Fig. 2 is a side view of the same, showing the cover removed. Fig. 3 is a transverse sectional view of the suds-box, and Fig. 4 is a plan view of the cover removed.

In constructing my machine an upright
25 frame, which consists of the vertical parts A A, united by the cross-bars B B', rests in and upon the transverse legs C C, as represented in the drawings in Figs. 1 and 2. The upper ends of posts A A are recessed, as shown
30 at *a*, to form journal-bearings for a crank-shaft at one side of the machine and a fixed gudgeon upon which the body of the washer is oscillated.

D designates the body of the machine, and
35 is composed of three equidistant radial wings, two wings, E E, and a portion of the other wing being integral, and the remainder of the other wing being formed of a removable cover, G. The ends of the said wings are preferably
40 rounded at each angle of the body on the outside thereof, and re-enforcing strips *c*, designed to strengthen the same.

It will be noticed that the sides of each wing are parallel, and thus the wing forms a
45 pocket.

The cover G is provided with a bifurcated top piece, H, as shown in Figs. 1 and 4. The bifurcated portions of this top piece extend beyond the walls of the cover, as shown in
50 Fig. 1, for the purpose of receiving the piv-

oted or swiveled rods *d*, which said rods are secured in position by means of thumb-nuts *f*, as shown.

g represents a lifting-knob for the washer-cover, and K the crank-lever by which the
55 washer is oscillated. This knob surrounds a tube, (marked *k*,) which extends through the upper wall of the cover, and also through the block *y*, which rests against and is attached
60 to said wall and is designed to serve as a vent-tube.

The letter Z'' represents a shield attached to the block *y*, as represented on Fig. 3 of the drawings. It is curved in cross-section, and
65 its lower curvature extends considerably below the block *y*, so that steam may pass to the tube *k* and find an exit. Between the cover and its seat I interpose a rubber gasket, *w*, on the drawings, for the purpose of securing
70 a water-tight joint.

In operating my washer I move the crank-lever K and swing it back and forth. These movements tilt the wings up and down, respectively, and their contents are dropped
75 from the one to the other by gravity.

At the side of my washing-machine, and hinged to the cross-bar B, I attach a wringing-frame, M, which is provided with a wringer,
80 O, which, when the washing-machine is being used, I swing backward, as represented on Fig. 1, so that it may not interfere with the oscillations of the body.

When I desire to use the wringer, I swing the frame thereof closely against the washer-frame, as shown in Fig. 2, and make it secure
85 by means of hooks *h*, one of which is attached to each of the upright posts A, and engages with a pin, *n*, of the wringer-frame. I remove the cover from the body, and the water from the wringer is allowed to pass into the said
90 body.

The hinged wringer-frame M is provided with a cross-bar, Z, which, when the said frame is brought up to the body, as shown more fully
95 in Fig. 2 of the drawings, will come beneath one of the wings E and prevent the said body from turning in one direction, while the cross-bar Z' at the top of the said frame will rest on portion of the wing on which the cover
100 rests, and thus clamp the said body firmly, to

prevent it from turning in the opposite direction. Thus it will be seen that when the wringer is in use the body of the washer will be prevented from turning in either direction.

5 Having described my invention, what I claim is—

10 In a washing-machine, the combination of the upright frame, the body formed of three radial equidistant wings, a portion of one of which is removable, a wringer-frame hinged to the upright frame and provided with cross-pieces Z and Z', one arranged to engage one

of the wings and the other to rest on the seat of the movable wing, and a fastener to secure the wringer-frame to the upright frame when the wringer is in use, all substantially as specified. 15

In testimony whereof I affix my signature in presence of two witnesses.

SHERMAN M. COLE.

Witnesses:

C. M. BROWN,
I. H. BRASTED.