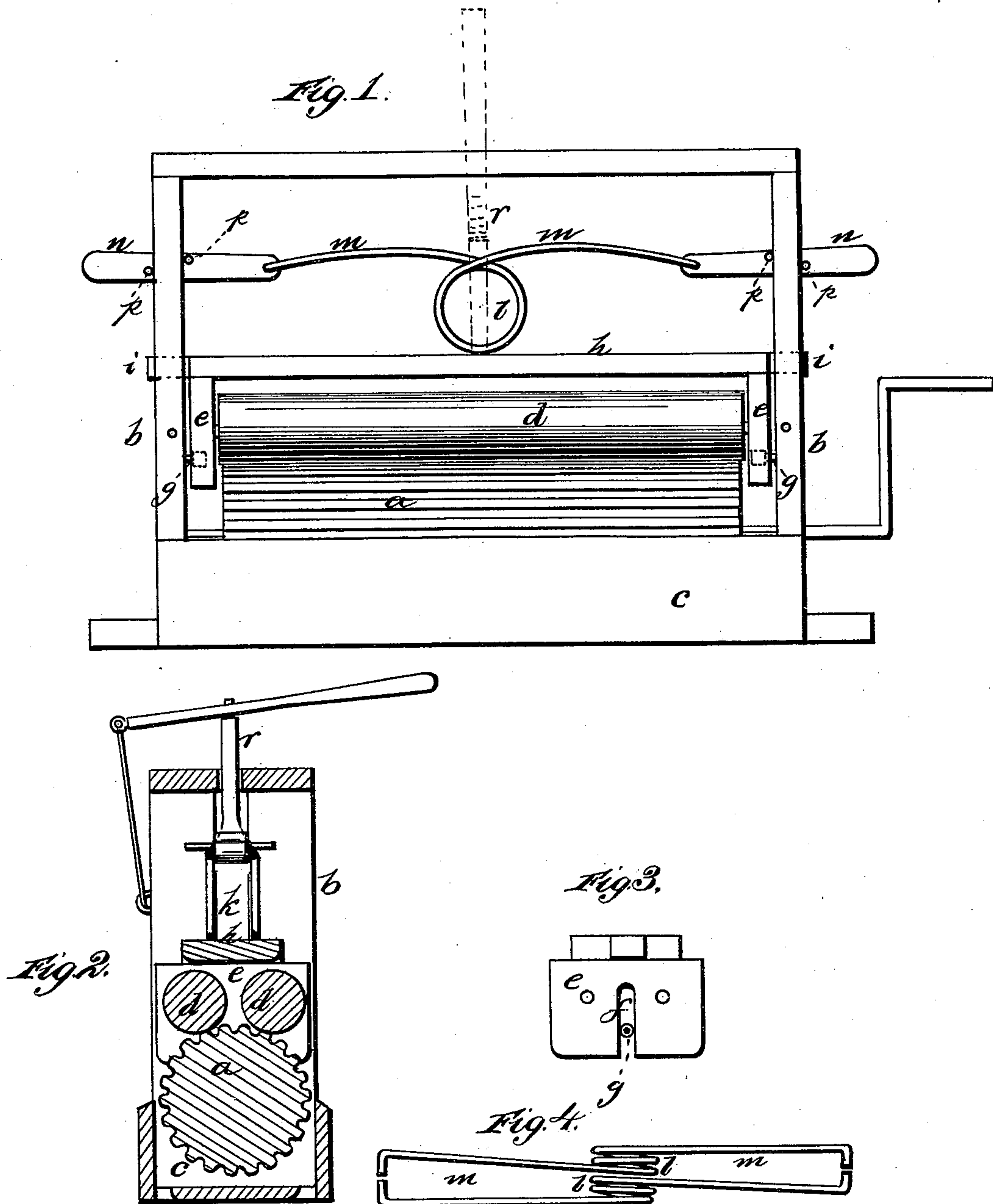


(No Model.)

E. J. SMITH.
Clothes Wringer.

No. 231,112.

Patented Aug. 10, 1880.



WITNESSES:

Robert L. Smith.
James J. Smith.

INVENTOR:

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UNITED STATES PATENT OFFICE.

ELDRIDGE J. SMITH, OF WASHINGTON, DISTRICT OF COLUMBIA, ASSIGNOR
TO W. K. W. WALDEN, OF BEDFORD, MISSOURI.

CLOTHES-WRINGER.

SPECIFICATION forming part of Letters Patent No. 231,112, dated August 10, 1880.

Application filed March 13, 1880. (No model.)

To all whom it may concern:

Be it known that I, ELDRIDGE J. SMITH, of Washington, in the District of Columbia, have invented certain new and useful Improvements in Clothes - Wringers; 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 side elevation of wringing-machine. Fig. 2 is a transverse sectional view of the same. Fig. 3 is a detail view, and Fig. 4 is a detached view of the spring.

My invention relates to clothes-wringers; and it consists in the peculiar arrangement of springs for holding down the journal-blocks of the top rollers, as hereinafter fully described, and particularly pointed out in the claim.

Let *a* designate a large fluted roller, which is journaled in the standards *b* and arranged so as to be partly inclosed in a trough, *c*. Rollers *d d* are arranged above the roller *a*, and are journaled in the vertically-sliding blocks *e*. These blocks *e* have slots *f*, the walls of which bear against anti-friction rollers *g*, these rollers having their axes journaled in the standards.

Secured to the blocks *e* are the ends of a bar, *h*, which has tenons *i*, arranged to work vertically in slots *k*, formed in the upper ends of the standards.

The device for pressing upon the bar *h* so as to depress the blocks in which the upper rolls are journaled consists in two coiled springs, *l l*, each one of which has extended arms *m m*. These arms connect with levers *n*, which are arranged to slide in the slots of the standard. These springs are analogous in their arrangement, and for a clearer description I will describe one spring.

A coiled spring has the material of which it is formed extended and bent tangentially at each end of the spring to the axis of the spring. One of these extensions connects with

the inner end of one lever *n*, and the remaining spring-extension extends in a reverse direction to the former and connects with the opposite lever.

Each lever has two pins, *p p*, one of which pins lies against the inner and the other against the outer walls of the standards. If one of the levers is depressed until it is close to the bar *h*, the spring-arms which connect it with the two springs will be bent down and the springs depressed upon the bar *h*. Upon releasing this lever the spring-power will cause the inner end of the lever to incline upwardly, and this clamps its pins upon the two sides of the standard through which the lever is passed. The other lever can be operated in a like manner. It will be observed that to gain this effect the pins are passed through the lever in different planes, and that to depress the lever pressure must be applied to its inner end, and that when it is to be raised pressure must be applied under its outer end. The other lever has a like construction, and hence both levers are adapted to be operated in the same way, and either singly or together; also, that they may be adjusted at any required heights in the slots of the standards, so as to vary the pressure of the springs upon the bar or follower *h*.

A forked bar, *r*, is employed in some instances to straddle the springs, though this is not necessary.

What I claim is—

The combination of the rollers in a wringer with the follower *h*, coiled springs *l l*, with spring-arms *m m*, and the levers *n n*, provided with pins arranged upon opposite sides of the standards, said levers being arranged to work in slots, substantially as and for the purposes set forth.

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

ELDRIDGE J. SMITH.

Witnesses:

JOHN M. FOSTER,

WILLIAM B. DINKLEMAN.