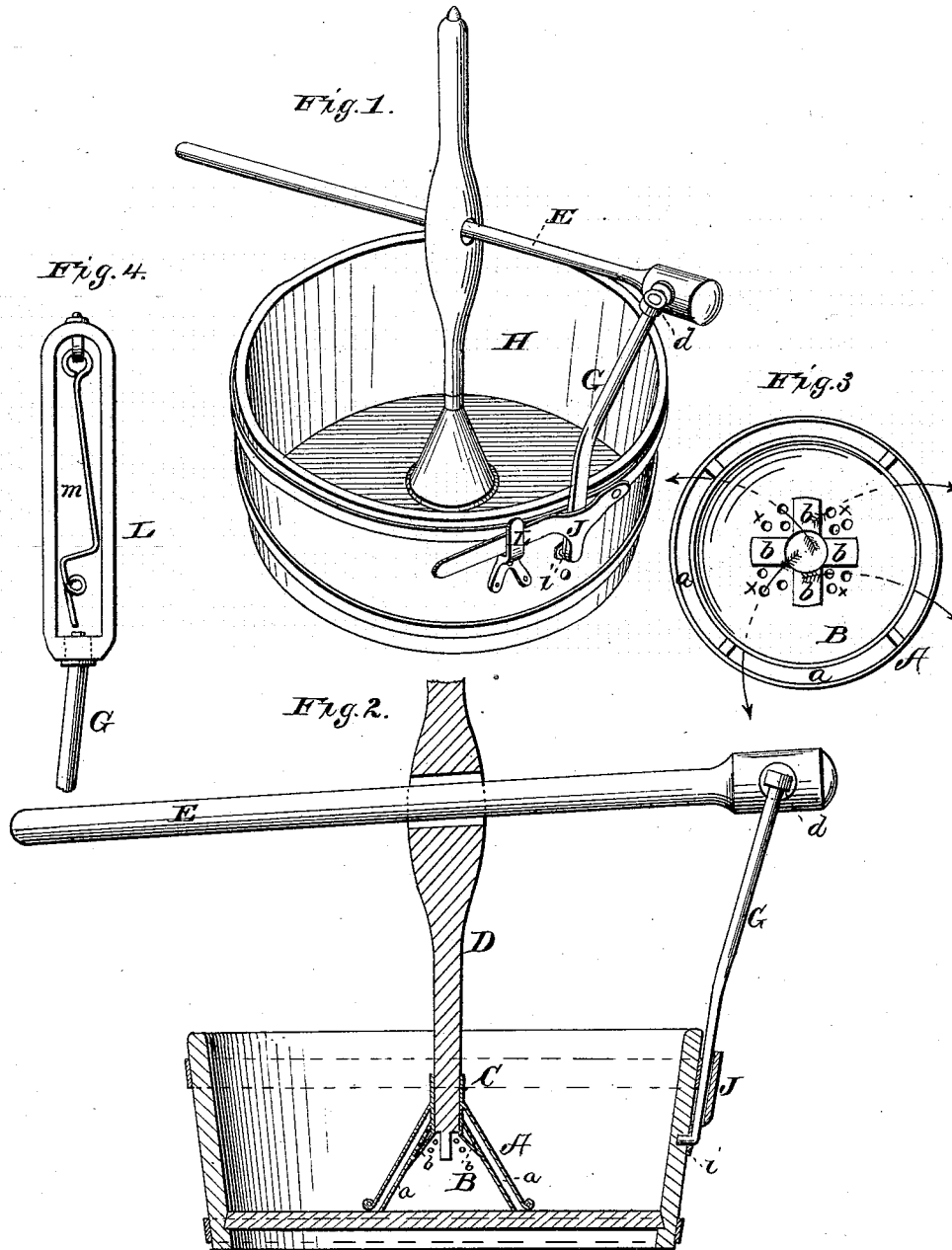


A. KIMBER.  
CLOTHES-WASHER.

No. 191,157.

Patented May 22, 1877.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

ABRAHAM KIMBER, OF MUNCIE, INDIANA.

## IMPROVEMENT IN CLOTHES-WASHERS.

Specification forming part of Letters Patent No. **191,157**, dated May 22, 1877; application filed April 24, 1877.

*To all whom it may concern:*

Be it known that I, ABRAHAM KIMBER, of Muncie, in the county of Delaware, and in the State of Indiana, have invented certain new and useful Improvements in Clothes Washer and Cleanser; and 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, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a clothes washer and cleanser, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view of my machine. Fig. 2 is a vertical section of the same, and Figs. 3 and 4 are detailed views of parts thereof.

The clothes washer and cleanser is composed of two conical shells, A and B, placed one within the other, with a narrow space, *a*, between them, and the two shells connected at the top or apex by a tube or socket, C, passing through them at that point to receive the handle D.

The outer shell A is made solid, while the inner shell B is perforated at the top by a number of holes, *x x*, as shown, and from the lower end of the tube or socket C extend a series of guards, *b b*, to the inside of the inner shell below said perforations, to prevent the clothes from getting up into said shell and clogging up the perforations.

The two shells A and B may be connected by wires or otherwise, so as to strengthen them, and thus enable me to make them of common tin or other similar material, the lower edges of the shells being strengthened by wires, as shown.

In the handle D is a suitable opening for the passage of the operating-lever E, which has at one end an eyebolt, *d*, passing loosely through it. This eyebolt is placed on the up-

per end of an arm, G, which is fastened to the tub H, thus allowing the lever E to turn in all directions.

The lever E is operated up and down by one hand, while with the other hand the handle D is moved out or in on the lever. When the washer and cleanser A B is brought down on the clothes the air is first forced through the perforations *x* into the chamber *a*, and then downward through the same at the lower end between the two shells, and down through the clothes, and thus the clothes washed without any wear or friction on them.

The clothes are thus not pounded, but air is forcibly made to pass through them, thoroughly washing and cleansing the same.

The arm G, above described, is provided on its lower end on the inner side with two lugs, *i i*, which enter holes made in the outside of the tub H, which holes may be metal-lined, if desired, and the arm then held by a latch, J, pivoted at one end to the tub, and held at the other end by a catch, I.

The arm G can thus be easily removed when desired.

Instead of swiveling the lever E on the upper end of the arm G, as above described, a slotted standard, L, may be swiveled on the upper end of said arm, and the lever E suspended in the slot in said standard by a wire, *m*, which will allow of said lever being moved in every direction in such a manner as to bring the washer and cleanser A B down on the clothes at any point in the tub without changing the position of the handle D on the lever.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the outer solid shell A, the inner perforated shell B, arranged to form a narrow space between the two shells, the tube or socket C, and guards *b*, substantially as and for the purposes herein set forth.

2. The combination, with a tub, H, of the standard or arm G, having lugs *i*, the latch J, and catch I, substantially as and for the purposes herein set forth.

3. The combination of the tub H, the detachable standard G, the lever E, with swivel *d*, the handle D, provided with a slot through which the lever passes, and the double-shell washer A B C *b*, all constructed substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I

have hereunto set my hand this 23d day of April, 1877.

ABRAHAM KIMBER.

Witnesses:

FRANK GALT,

HENRY N. MILLER.