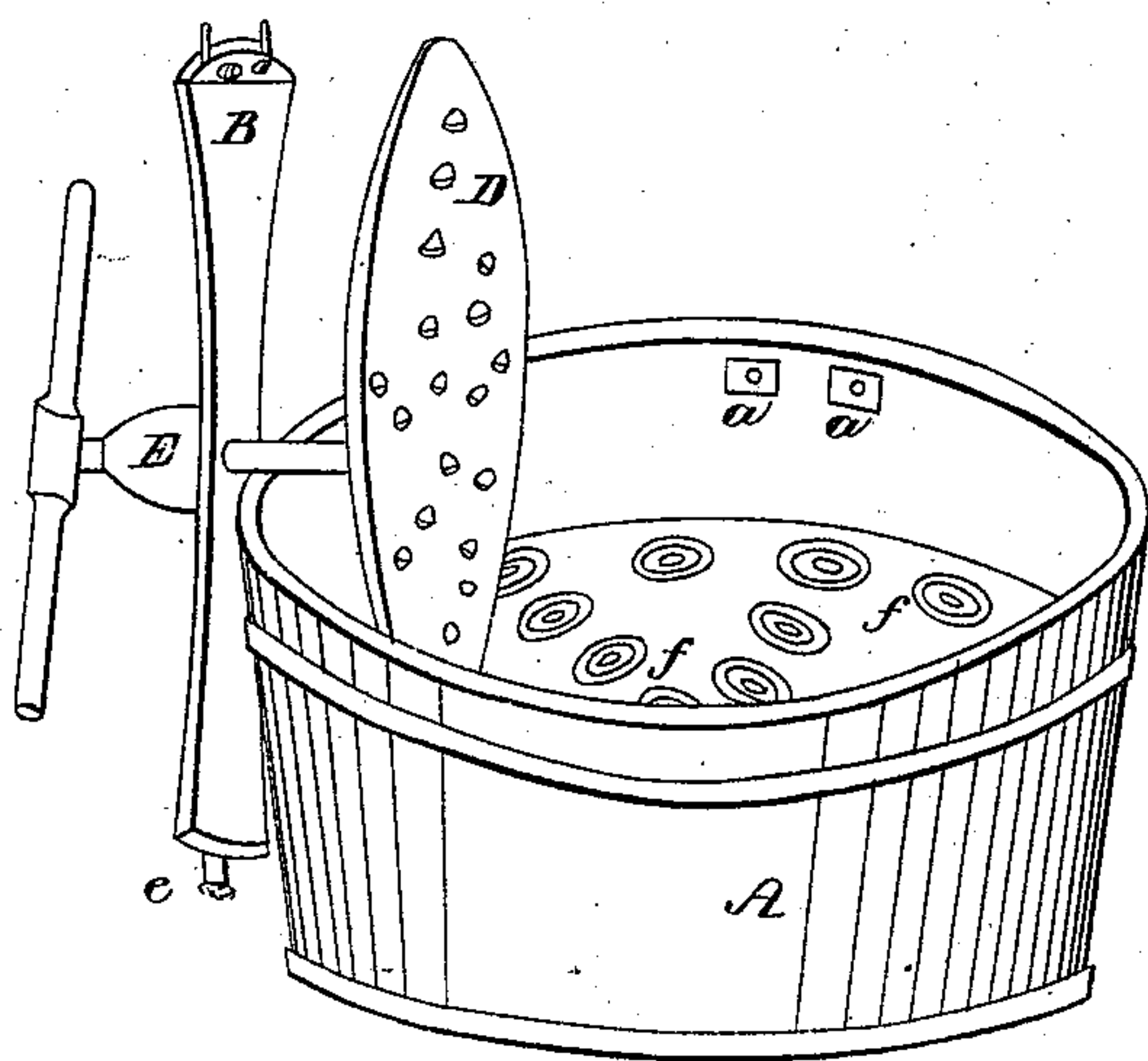
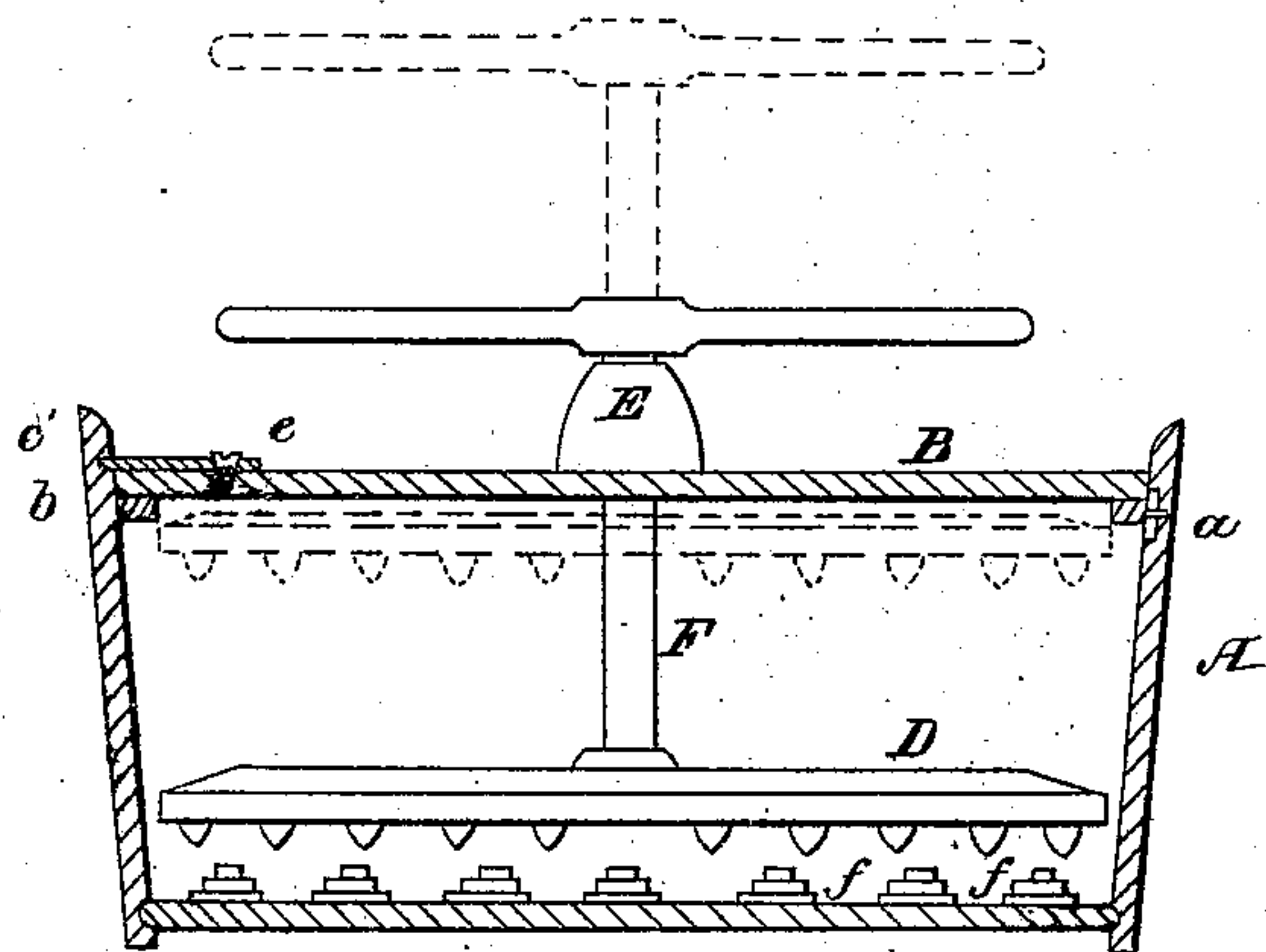


L. HANNUM.
Washing Machine.

No. 19,634.

Patented March 16, 1858.



UNITED STATES PATENT OFFICE.

L. HANNUM, OF HOMER, NEW YORK.

WASHING-MACHINE.

Specification of Letters Patent No. 19,634, dated March 16, 1858.

To all whom it may concern:

Be it known that I, LEWIS HANNUM, of Homer, in the county of Cortland and State of New York, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification.

By my improvements in constructing and the arrangement within the periphery of a tub, of the cross board through which the stem passes for operating the rubbing disk, said board being provided with projecting stubs or pins on the one side and a swivel bolt on the other, for entering suitable recesses within the periphery of one of that class, known as turned tubs, I am enabled with great economy to convert it into an efficient washing machine, and when it may be desirable to dispense with the rubbing disk and its support and guide and reconvert it into a simple tub for rinsing the washed clothes, it can be done with great facility. By my mode of securing the cross piece within the periphery instead of on the top of the tub, produces a degree of steadiness in guiding the disk, combined with a faculty of removal of the disk and cross piece hitherto unattained. The turned washing tub it may be remarked is made without the long staves in which the holes forming handles are cut.

To enable others skilled in the art to make and use my improvement it may be thus described.

A represents the tub formed of staves of equal length. On the inside near the top are inserted two small metal plates, *a a* having holes therein: directly opposite those plates are cut two notches *b b*, forming shouldered nicks or recesses; and on the same side of the tub is a long slot *c'* for the entrance of a swivel bolt.

B, is a cross board, having projecting pins inserted in its end for entering the holes *a a*. It is also provided with a swivel bolt *e*, which entering the slot *C'* serves as a

latch in retaining the cross board firmly in the tub.

E, is a cone attached to B, through which the stem F passes and by which the disk or wash board D is guided, said stem being furnished with a handle as an ordinary machine. The underside of D is provided with knobs or knuckles, but the bottom of the tub has a series of buttons formed of diminished plates *f, f*. This shape of antagonistic projections to those on the disk I have found in practice to be an important improvement, inasmuch as by their square edges they better retain the clothes against the rubbing of the knuckles.

In the use of the tub it does not differ from others and therefore requires no direction other than in the removal of the rubber disk, cross board, &c.; to do this draw up the disk by the cross handle on stem F, then turn the end of the swivel bolt out of the slot, and lift the handle, when the whole disk, &c., may be removed from the tub and it converted into one of an ordinary character. Previous to laying it aside, drain it by placing the disk and cross board astraddle on the rim of the tub.

This washing machine possesses the properties of portability, cheapness and facility of construction, freedom from liability of being out of order by leakage, &c., and while the disk may be readily removed from the tub, its steadiness of movement therein is still preserved.

Having described my improvement what I claim as my invention and desire to secure by Letters Patent is—

The employment of the projections *f, f*, in the bottom of the tub in combination with the knuckles on the under side of the disk D as set forth, substantially in the foregoing specification.

In testimony whereof I have signed my name before two witnesses.

LEWIS HANNUM.

Witnesses:

JOHN F. CLARK,
EDM. F. BROWN.