

G. BURKHARDT.
Washing-Machine.

No. 203,704.

Patented May 14, 1878.

Fig: 1.

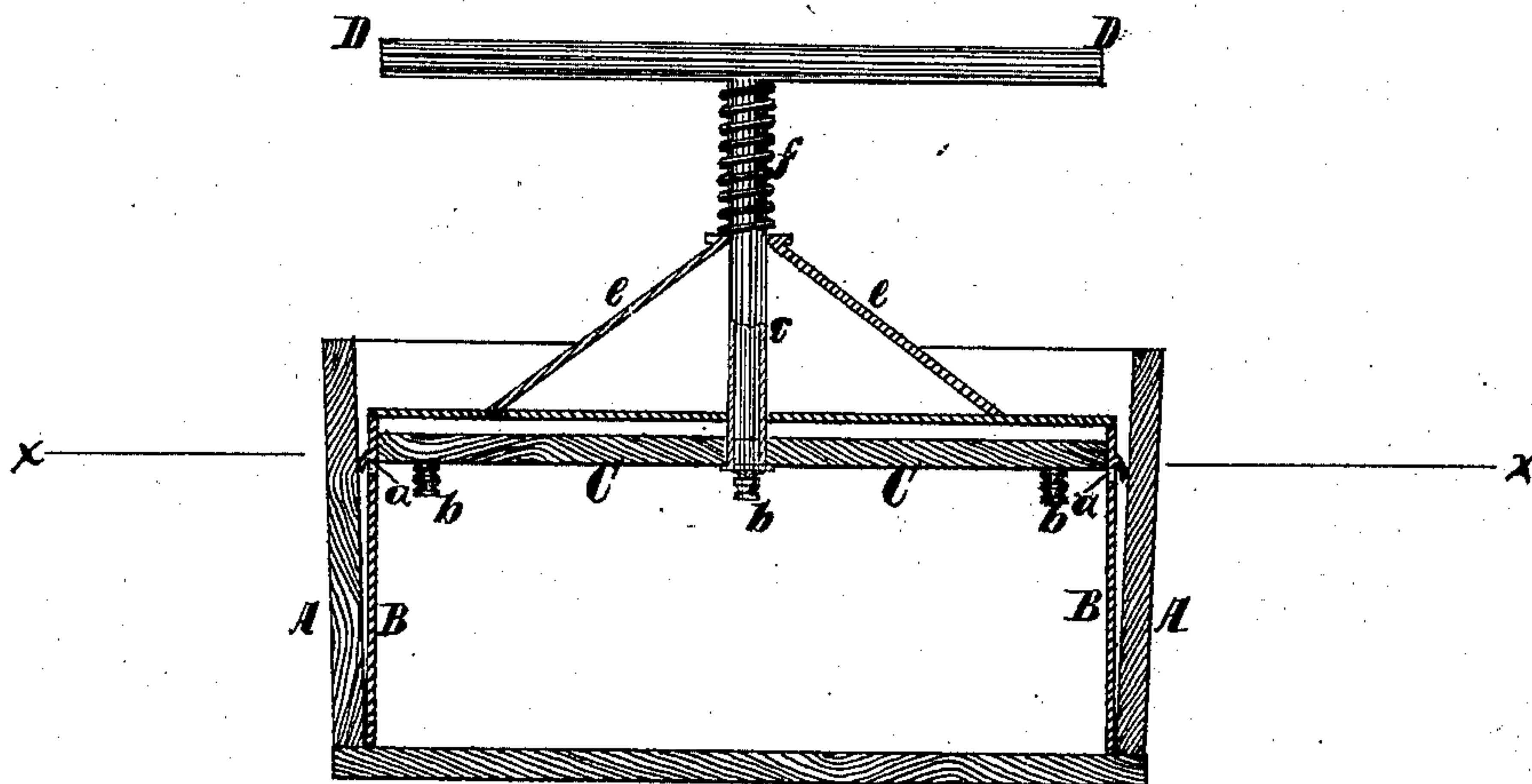
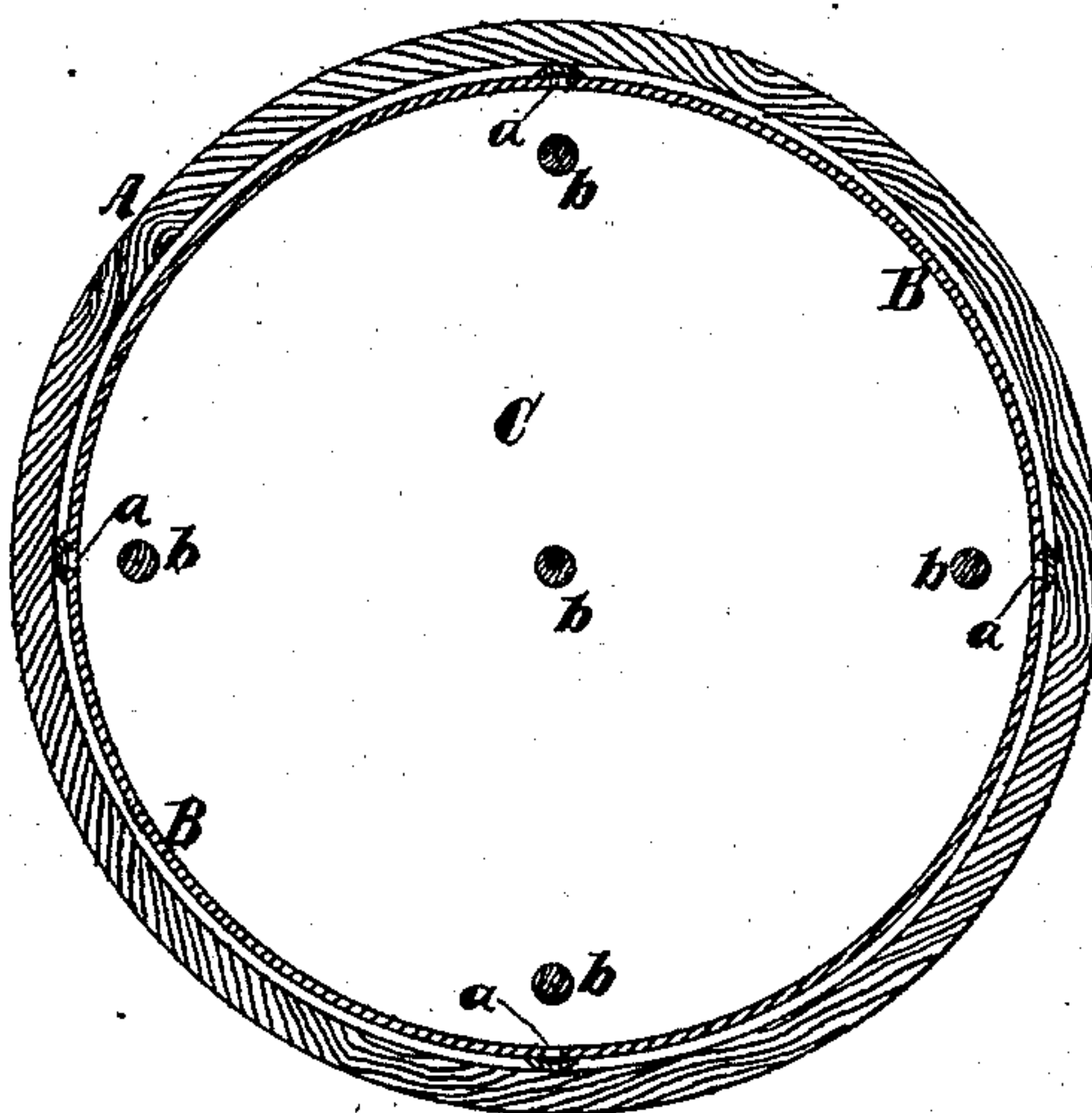


Fig: 2.



Witnesses:
Hugo Bueggemann
Roos E. Miller

Inventor:
Gustav Burkhardt
per
Van Santvoord & Hauff
attys

UNITED STATES PATENT OFFICE.

GUSTAV BURKHARDT, OF HOMER, ILLINOIS.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **203,704**, dated May 14, 1878; application filed February 26, 1878.

To all whom it may concern:

Be it known that I, GUSTAV BURKHARDT, of Homer, in the county of Champaign and State of Illinois, have invented a new and useful Improvement in Washing-Machines, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 is a vertical central section. Fig. 2 is a horizontal section in the plane *xx*, Fig. 1.

Similar letters indicate corresponding parts.

This invention consists in the combination, with the hood of a washing-machine provided with openings which allow air to enter, of a plunger or pounder provided with lugs or projections, which lugs serve to rinse the clothes about and insure thorough washing, and of a spring which lessens or destroys the strain on the hood caused by raising the plunger.

In the drawing, the letter A designates a tub, in which the water and the clothes to be washed are put. B B is a hood of sheet metal or any other desired material. This hood is placed in the tub A, and covers the clothes to be washed. C is a plunger or pounder, provided with lugs or projections *b b b*, which lugs rinse the clothes about in the hood when the plunger C is turned, and so thorough washing is secured. The plunger C is connected by a rod, *c*, to the handle D, and by this means a revolving as also a reciprocating motion can be communicated to the plunger C.

In order to allow said plunger to move up and down easily inside the hood B, said hood is provided with a number of openings, *a a*, which allow the air to enter and escape. The top of the hood B is provided with an attachment, *e*, in the shape of a truncated cone. The

rod *c*, being guided by the top of the hood B and the top of said attachment *e*, is caused to move perpendicularly up and down, and no lateral motion of said rod *c* is liable to occur, which lateral motion might rupture the hood. It has been found also that by far the greater strain on the hood B is caused by raising the handle D. To remove this strain, the handle D and plunger C are raised by means of the spring coiled around the rod *c*, which spring raises the plunger as soon as the pressure on the handle D is removed.

I am aware that washing-machines have been constructed similar to the one just described, as, among others, in the patents to H. J. Noyes, No. 128,501; B. A. Williams, No. 137,161; and E. Crowell, No. 169,963. But my machine is much simpler; and I disclaim any arrangements shown in the patents above named and other patents of such a nature, and limit myself to the construction of a machine substantially as the one described above.

What I claim as new, and desire to secure by Letters Patent, is—

The combination, in a washing-machine, of the flat disk plunger C, having a series of downward-projecting lugs or pins, *b*, for pounding and turning the clothes to be washed, with the perforated hood B, rod *c*, spring *f*, and the handle D, all constructed and operating substantially as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 20th day of February, 1878.

GUSTAV BURKHARDT. [L. S.]

Witnesses:

D. A. SPRAKER,

AUSTIN HENDERSON.