

J. DANNER.
WASHING MACHINE.

No. 39,341.

Patented July 28, 1863.

Fig. 1.

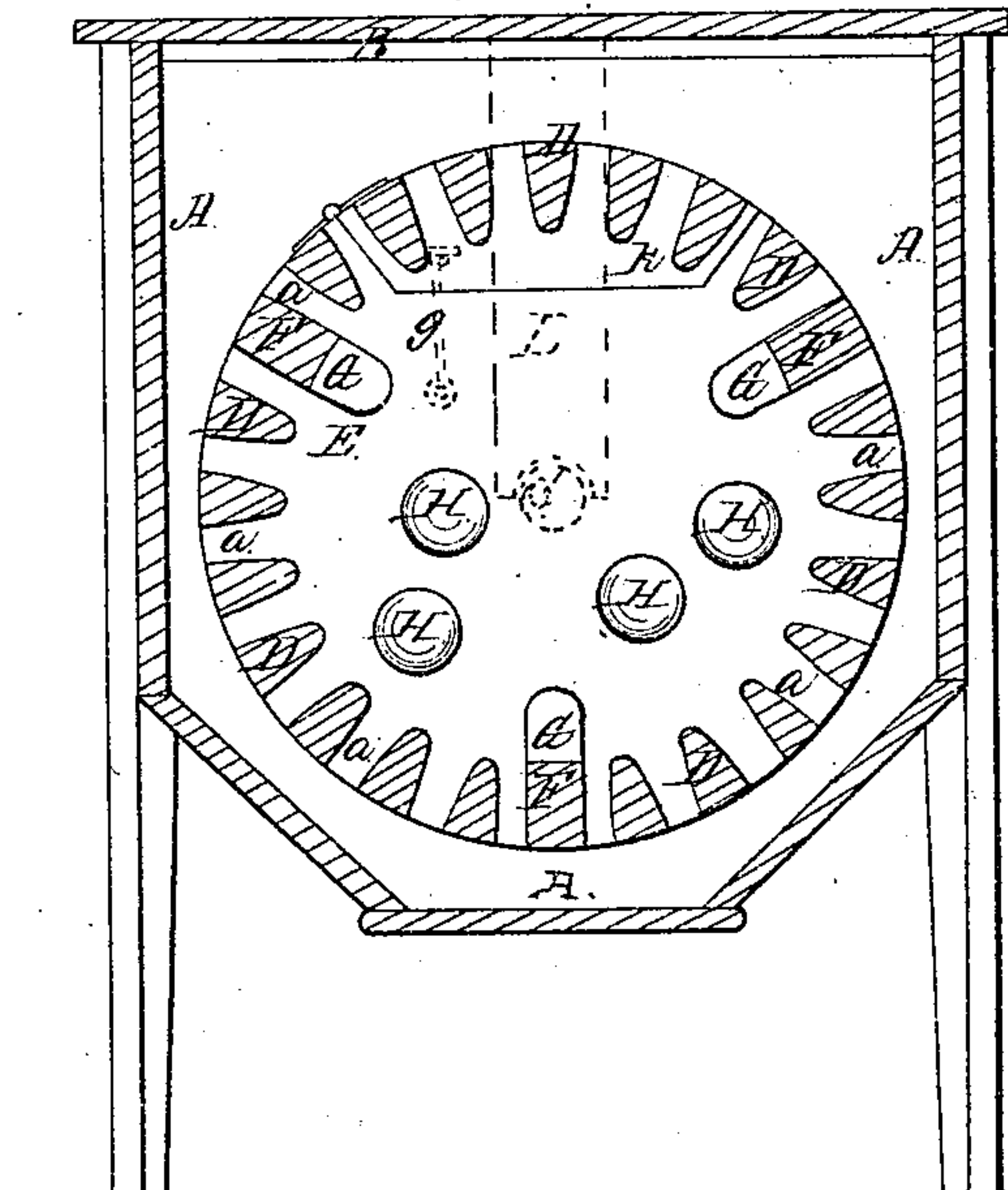


Fig. 3.

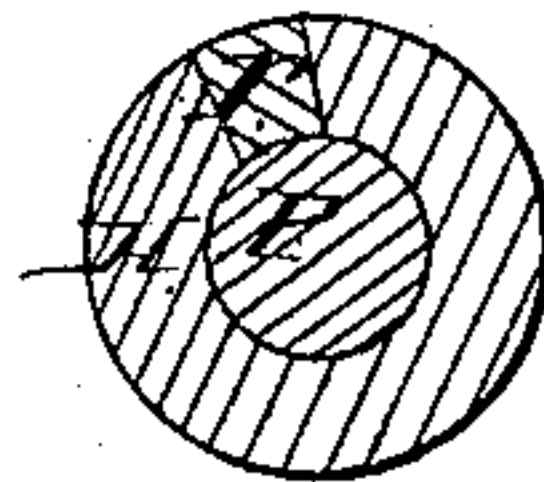
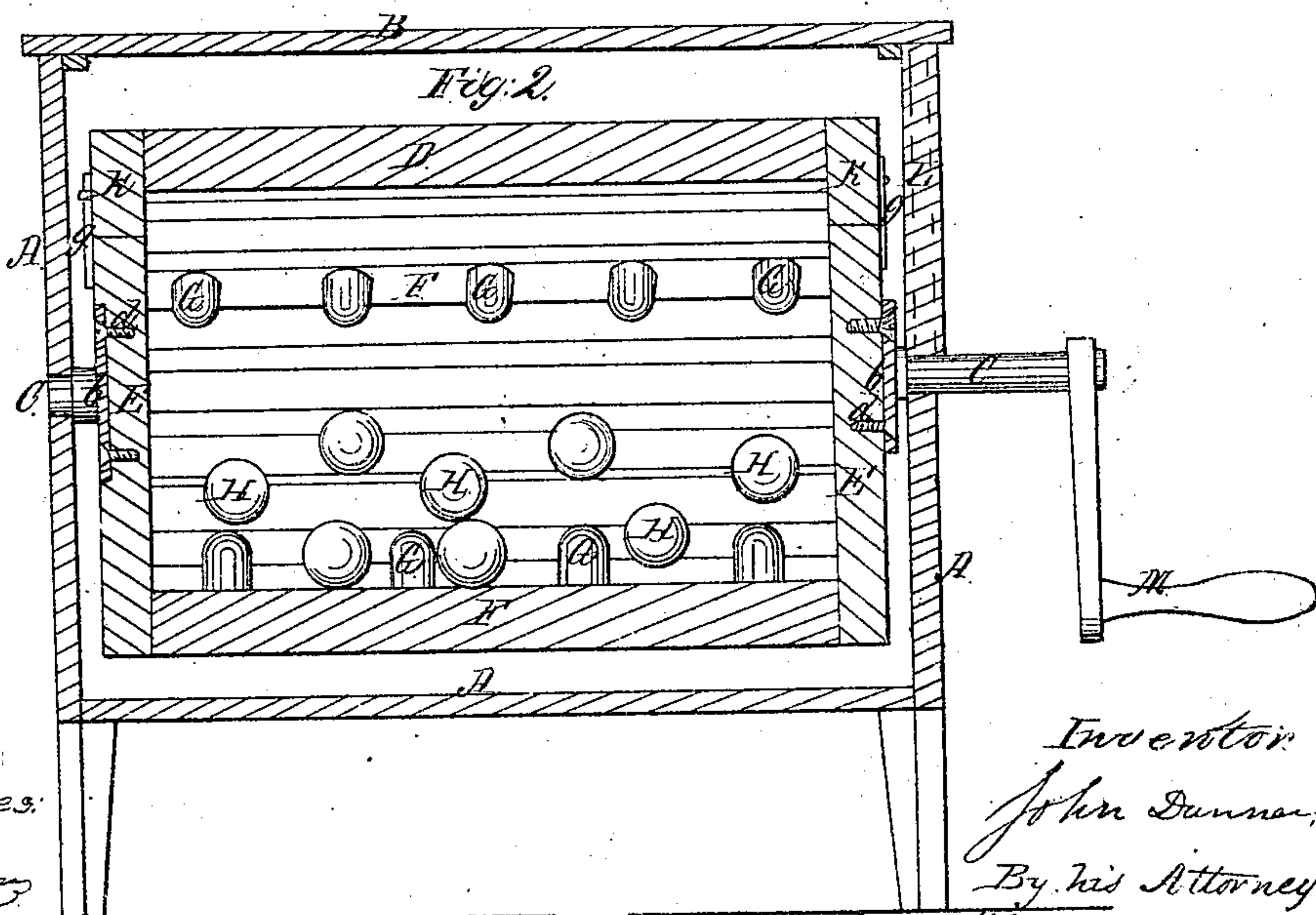


Fig. 2.



Witnesses:

J. P. Sullivan
A. P. Hendrick

Inventor

John Danner
By his Attorney
Thos. H. Dodge.

UNITED STATES PATENT OFFICE.

JOHN DANNER, OF CANTON, OHIO

IMPROVED WASHING-MACHINE.

Specification forming part of Letters Patent No. 39,341, dated July 28, 1863.

To all whom it may concern:

Be it known that I, JOHN DANNER, of Canton, in the county of Stark and State of Ohio, 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 construction and operation of the same, reference being had to the accompanying drawings, in which—

Figure 1 represents a vertical cross-section through said washing-machine. Fig. 2 represents a longitudinal vertical section through the same. Fig. 3 represents a central section through one of the balls which operate within the washing-cylinder.

My invention consists in the combination of a revolving slatted cylinder with a stationary wash-box, the cylinder being provided on its interior with knobs or projections, which turn and lift the clothes, the latter being scoured by the action of weighted balls, which play loosely within said cylinder.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A represents the stationary wash-box, in which the soap-suds are contained, the top of which is closed by a lid, B. Within this box a cylinder is mounted on its pivots C. The circumference of this cylinder is composed of thick slats D, the inner edges of which are rounded off, as represented in Fig. 1. The spaces *a* between the slats D permit the suds in the wash-box to enter freely the cylinder. The ends E of the cylinder are made of solid wood, to which the plates *b* of the pivots C are secured by means of the screws *d* or otherwise. A number of the slats, marked F, are square, and are provided on their inner side with knobs G, the heads of which are rounded off, as represented in the drawings. The object of these knobs is to lift and turn the clothes in the operation of washing, and thus to expose them thoroughly to the action of the suds and balls.

H represents wooden balls in the slatted cylinder. They play loosely within said cylinder when the same is revolved, and scour by their action the clothes contained therein. To make this operation more effectual, I use weighted balls, or such as are filled with metal. For this purpose a small cavity, P, is turned in their center and filled with metal, and the ball is plugged up with wood *r*, to prevent any rust or oxidation of the metal from injuring the clothes. The slatted cylinder may be opened for the introduction of the clothes by means of the hinged lid K.

L represents a sliding board within one of the ends of the wash-box, which can be withdrawn for the purpose of removing the cylinder from the box if such is required.

The operation of the machine is as follows: The box A having been filled with the desired quantity of suds, the clothes are introduced into the cylinder, and the lid K is closed and secured by means of the hooks *g*. The wash-box is then closed by lid B, and the cylinder is rotated by means of the crank M. By this operation the clothes within the cylinder are subjected to the action of the weighted balls within the suds, but they are also prevented from packing by the action of the knobs G, which lift and turn the clothes, thus not only exposing different points of the clothes to the action of the balls, but also permitting free access of the suds to all parts of the clothes.

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

The combination, with a stationary wash-box, of a rotating rounded slatted cylinder provided with knobs G and weighted balls, the whole being constructed and operating substantially as set forth.

JOHN DANNER.

Witnesses:

GEO. E. BALDWIN,
GEO. W. MISZ.