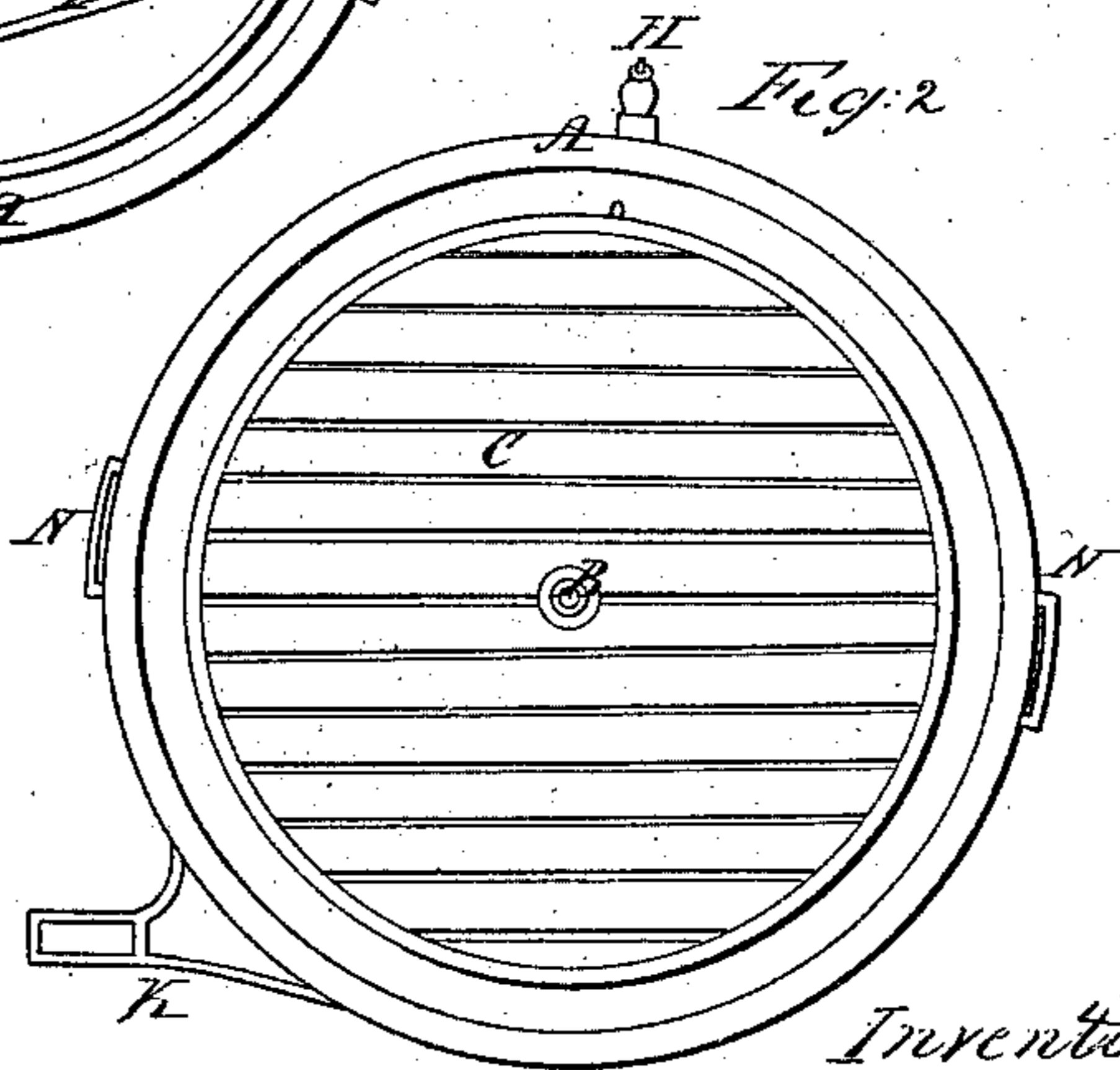
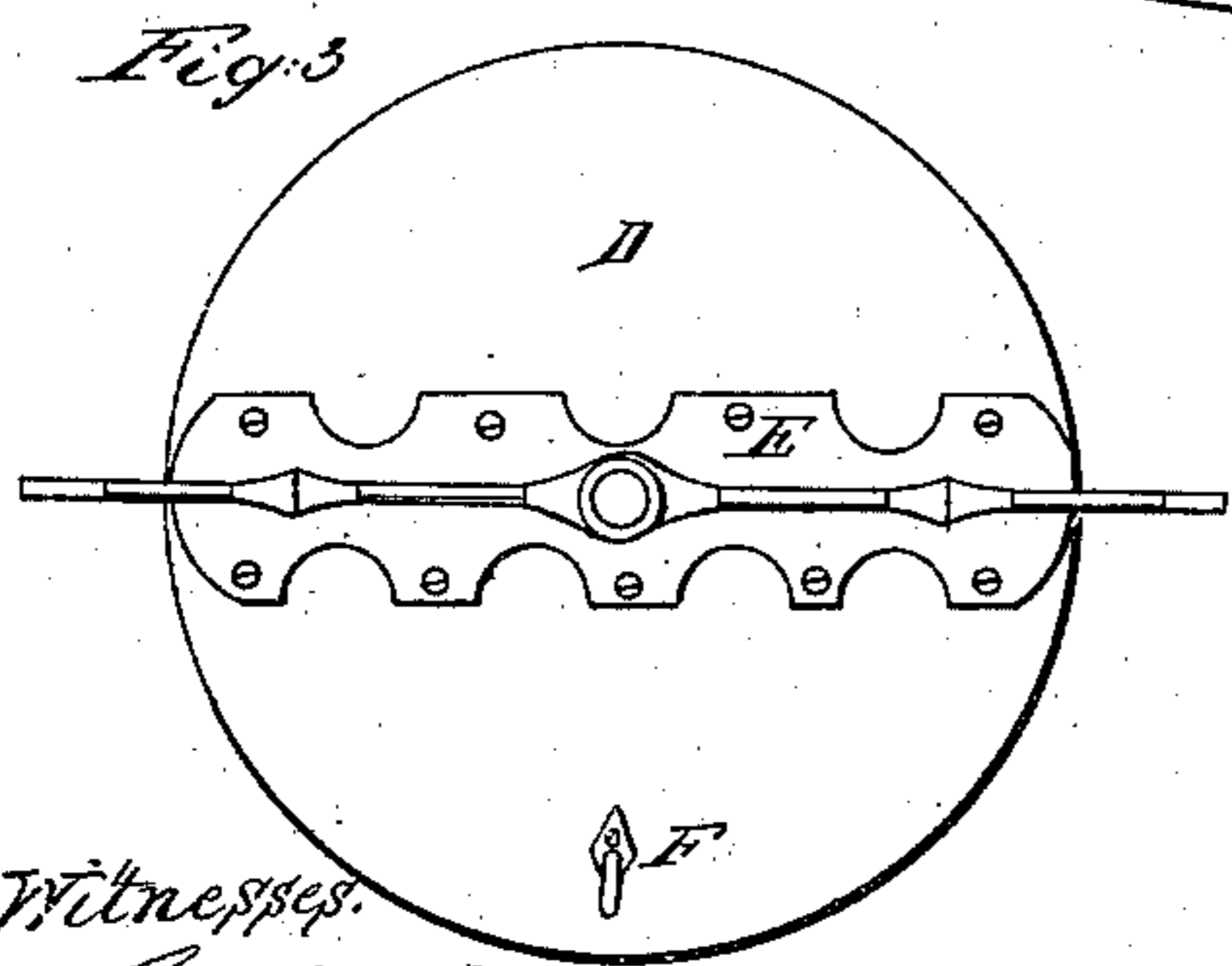
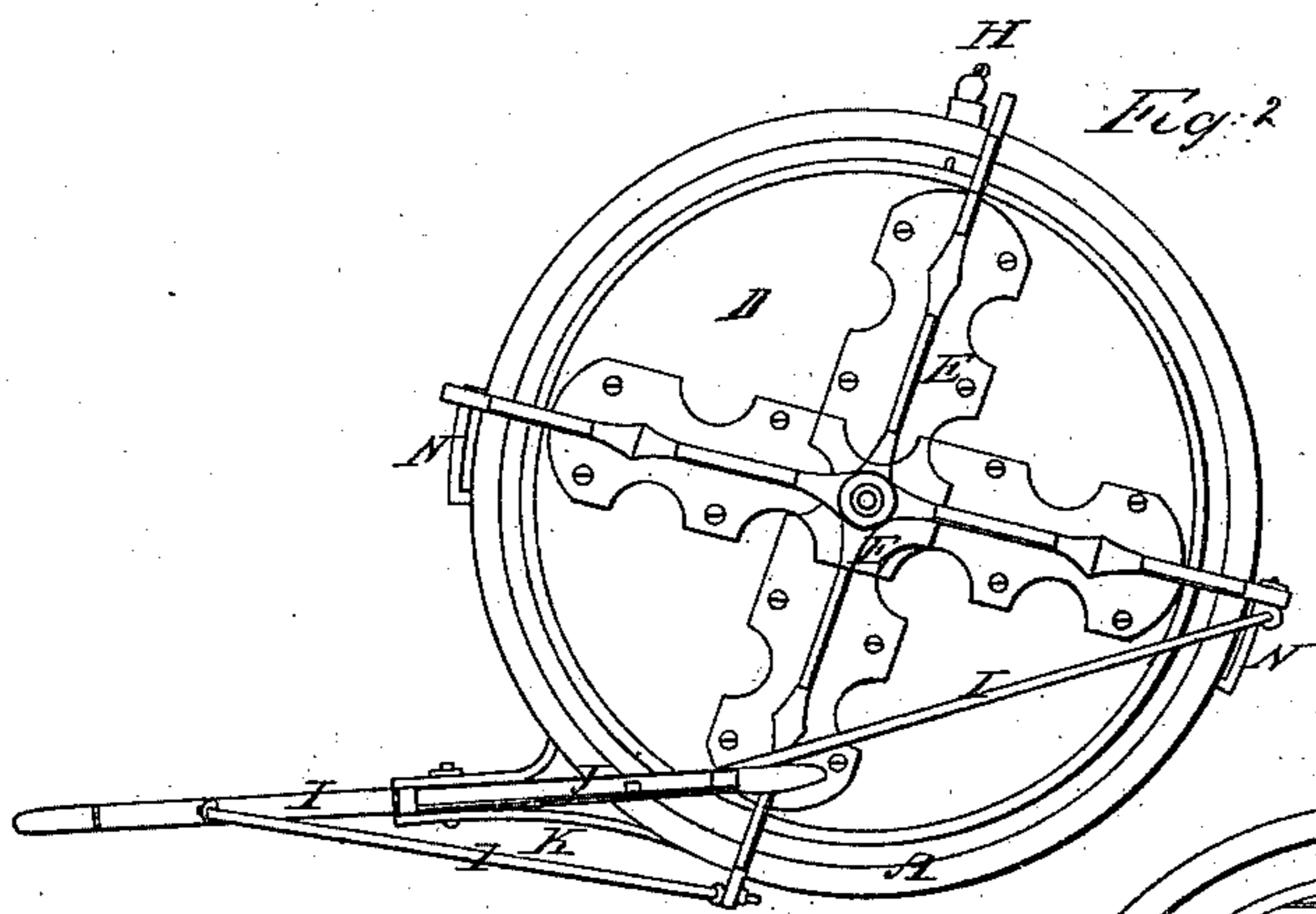
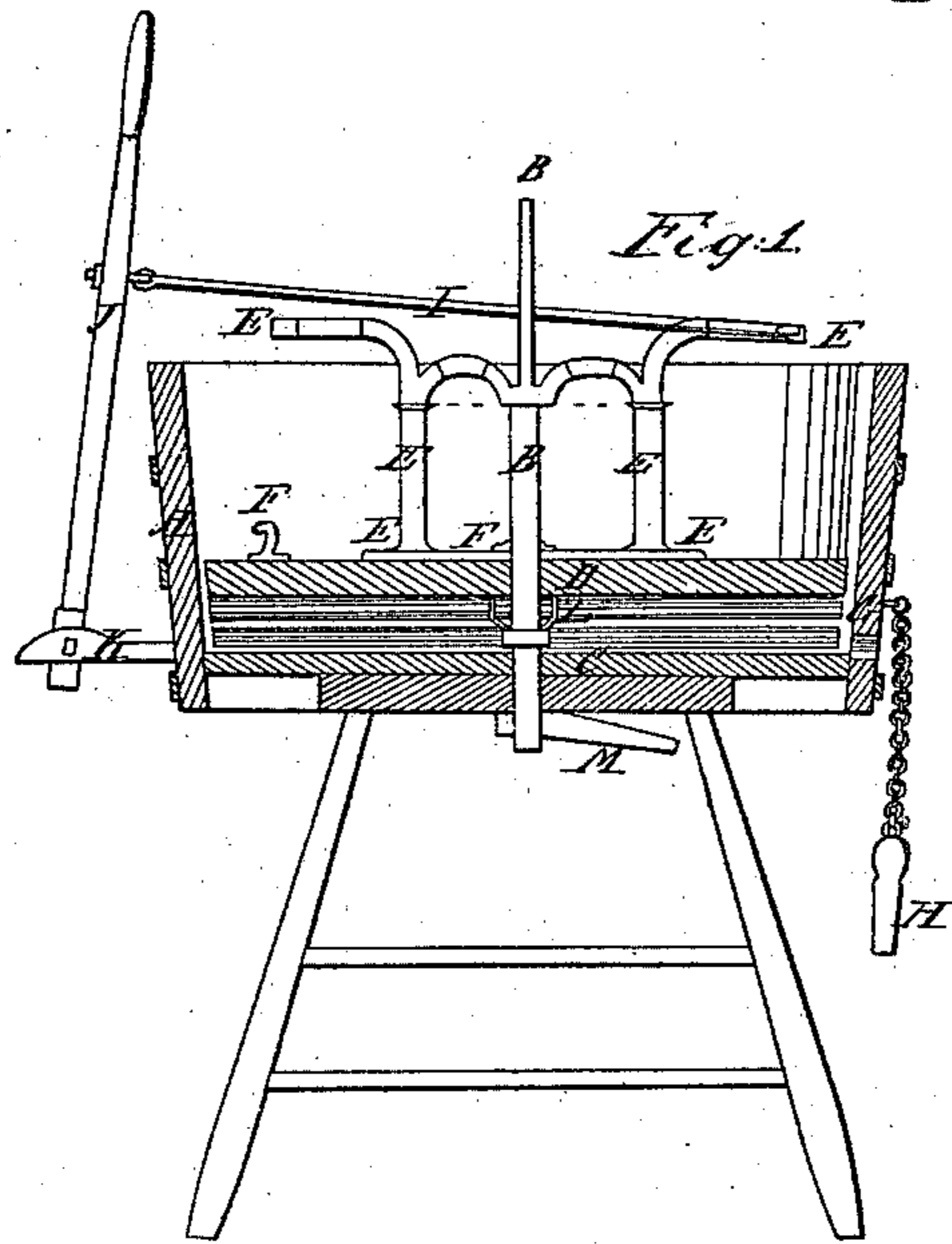


# R. B. Hugunin, Washing Machine,

N<sup>o</sup> 42,376.

Patented Apr. 19, 1864.



Witnesses.  
G. B. Tibbitts Jr.  
Chas. Seyler

Inventor  
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# UNITED STATES PATENT OFFICE.

ROBERT B. HUGUNIN, OF CLEVELAND, OHIO.

## IMPROVED WASHING-MACHINE.

Specification forming part of Letters Patent No. 42,376, dated April 19, 1864.

*To all whom it may concern:*

Be it known that I, ROBERT B. HUGUNIN, of Cleveland, county of Cuyahoga and State of Ohio, have invented a new and useful Machine for Washing Clothes; 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, forming a part of this specification, in which—

Figure 1 represents a vertical cross-sectional view of my improved machine. Fig. 2 is a plan view of the machine, showing the top rubbing-board removed, and represented by Fig. 3. The movable parts in this figure are represented in two positions.

Similar letters of reference indicate corresponding parts in both figures.

To enable those skilled in the art to fully understand my invention, I will proceed to describe its construction and operation.

In the drawings, A represents a circular tub, of any suitable size, having a shaft, B, erected from its center. The shaft B extends above the top of the tub, and is substantially held steady in this position by means of the shoulder, resting upon the bottom of the tub, and lever nut M underneath the top of the stool. The shoulder resting on the bottom of tub when screwed down properly prevents any leakage.

The bottom C is covered with a metal plate, the corrugations upon which run each parallel with the other from side to side.

D is a circular board, the bottom of which is covered with a corrugated metal plate, similar to the one on the bottom C.

E is a galvanized (or metal) yoke, through the center of which the shaft B passes, upon the larger upper portion of which shaft the cross-bar of the yoke rests when the machine is not being used.

F is a hook securely fastened to the board D, and is used for resting the board D on the side of the tub and against the shaft while putting in and taking out clothes.

G is a hole through the side of the tub near the bottom, with a lipped metal plate on the outside, to lead off the water being drawn from the machine.

H is a plug attached to the tub, with a chain

and eyebolts being used to close the hole H after the water has been drawn off.

I is a rod connecting with the metallic yoke E and lever J, which in turn is connected to the metal plate K, which plate is securely fastened onto the outside of the tub near the bottom.

L is a circular block placed over the corrugated plate on the under side of the board D, near the center, through which the shaft B passes when lifting the board on or off. The block is intended to prevent the moving of the plate by the end of the shaft during the process of putting over the board D; N N, handles.

The operation of the machine may be briefly described as follows: The articles to be washed are placed within the machine, after raising the board D clear of the shaft and resting it, as before described. Water is then poured into the machine sufficiently to cover the clothes. After which the board D is replaced, when, by a back and forward movement of the lever J, you give to the board D an alternate circular motion, which causes the corrugated surfaces C D to act with an efficient rubbing action on the articles in contact with their surfaces.

The corrugations in the rubbing-board D in operation represents tangents to circles whose radii is the distance of the corrugations from the center of the shaft B. Therefore the clothes are not worked during the operation of washing, and ground between the rubbing-board and side of the tub. When the articles are cleansed, they are removed, and the water drawn off, as before described.

Having thus described my invention, I claim—

1. The corrugated surfaces C and D, substantially as and for the purposes specified.

2. The arrangement and combination, in connection with the surfaces C and D, of the shaft B, yoke E, lever J, plate K, as and for the purposes herein shown.

R. B. HUGUNIN.

Witnesses:

GEO. B. TIBBITS,  
CHS. SEYLER.