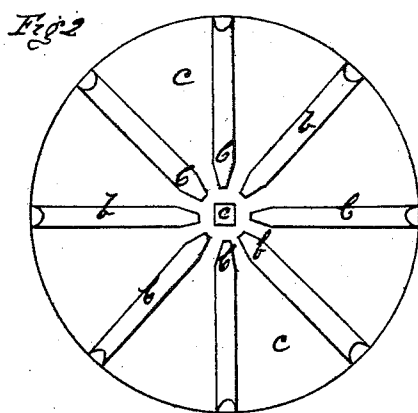
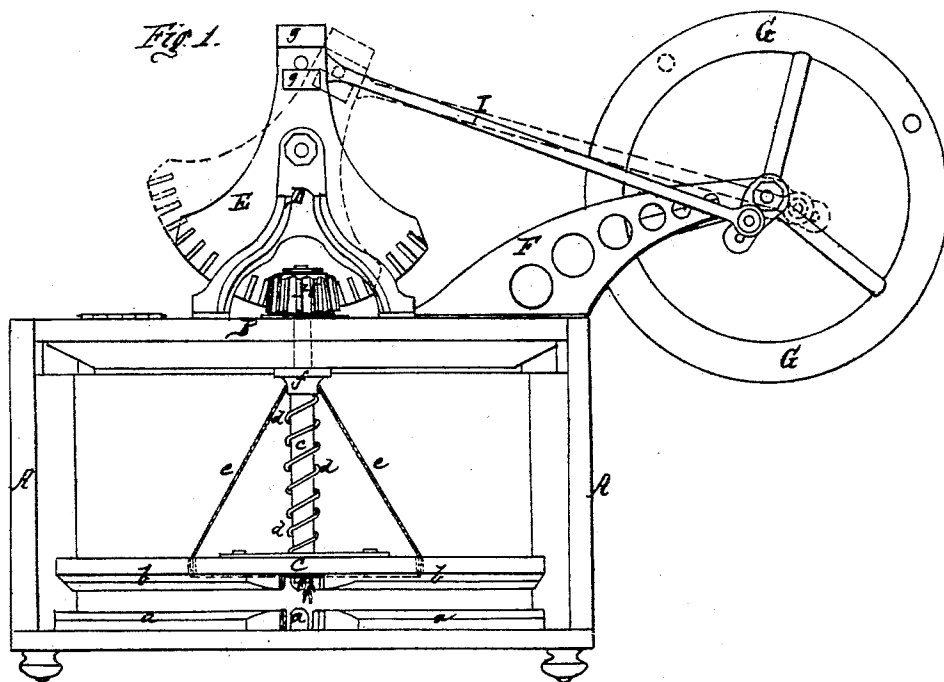


W. COOPER.
WASHING MACHINE.

No. 83,764.

Patented Nov. 3, 1868.



Witnesses
Harry King
Leopold Querk

Inventor
William Cooper
 per *Charles Massa*
Atty

United States Patent Office.

WILLIAM COOPER, OF GALESBURG, ILLINOIS.

Letters Patent No. 83,764, dated November 3, 1868.

IMPROVED WASHING-MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, WILLIAM COOPER, of Galesburg, in the county of Knox, and in the State of Illinois, have invented certain new and useful Improvements in Washing-Machines; 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.

The nature of my invention consists in the construction and general arrangement of a washing-machine, to be operated either by means of a lever or a balance-wheel, as may be desired.

In order to enable others skilled in the art to make and use my invention, I will now proceed to describe its construction and operation, referring to the annexed drawings, which form a part of this specification, and in which—

Figure 1 is a side section, and

Figure 2, a bottom view of the circular movable board.

A represents a square box, made of any size and material desired, and having a hinged lid or cover, B.

Inside of said box is the rubber, formed by wooden cleats *a a*, fastened in circular form to the bottom thereof, and on which works a circular board, C, with cleats *b b* corresponding to those on the bottom, as shown in fig. 2.

The circular board C is attached to a shaft, *c*, by means of a small chain, *e e*, passing through a hole in said shaft, the ends of the chain being fastened to the

board, to which is also attached a spiral spring, *d*, which is placed around the shaft *c*, and against a collar, *f*, on said shaft, so that the board C will always be pressed down on the clothes, but still have opportunity to accommodate itself to their movements on the cleats in the bottom of the box.

The shaft *c* passes through the lid or cover B, and at its upper end is a bevelled pinion, H, which is driven by a segment, E, of a cog-wheel, this being pivoted in an iron frame, D, to the lid.

The segment E has two loops, *g g*, for a lever, one near the centre, and the other near the top. There is also attached to it a pitman, I, and crank-wheel G, which are removable, and thus enables the machine to be worked by either lever or crank.

I am aware that the several parts of the above-described invention, taken separately, are not new.

What I claim, is—

The arrangement of the box A, its bottom ribs, *a*, the board C, with ribs *b*, shaft *c*, spring *d*, cog H, segment E, pitman I, plate F, and balance-wheel G, all constructed and operated as herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand, this 9th day of June, 1868.

WM. COOPER.

Witnesses:

A. N. MARR,
LEOPOLD EVERT.