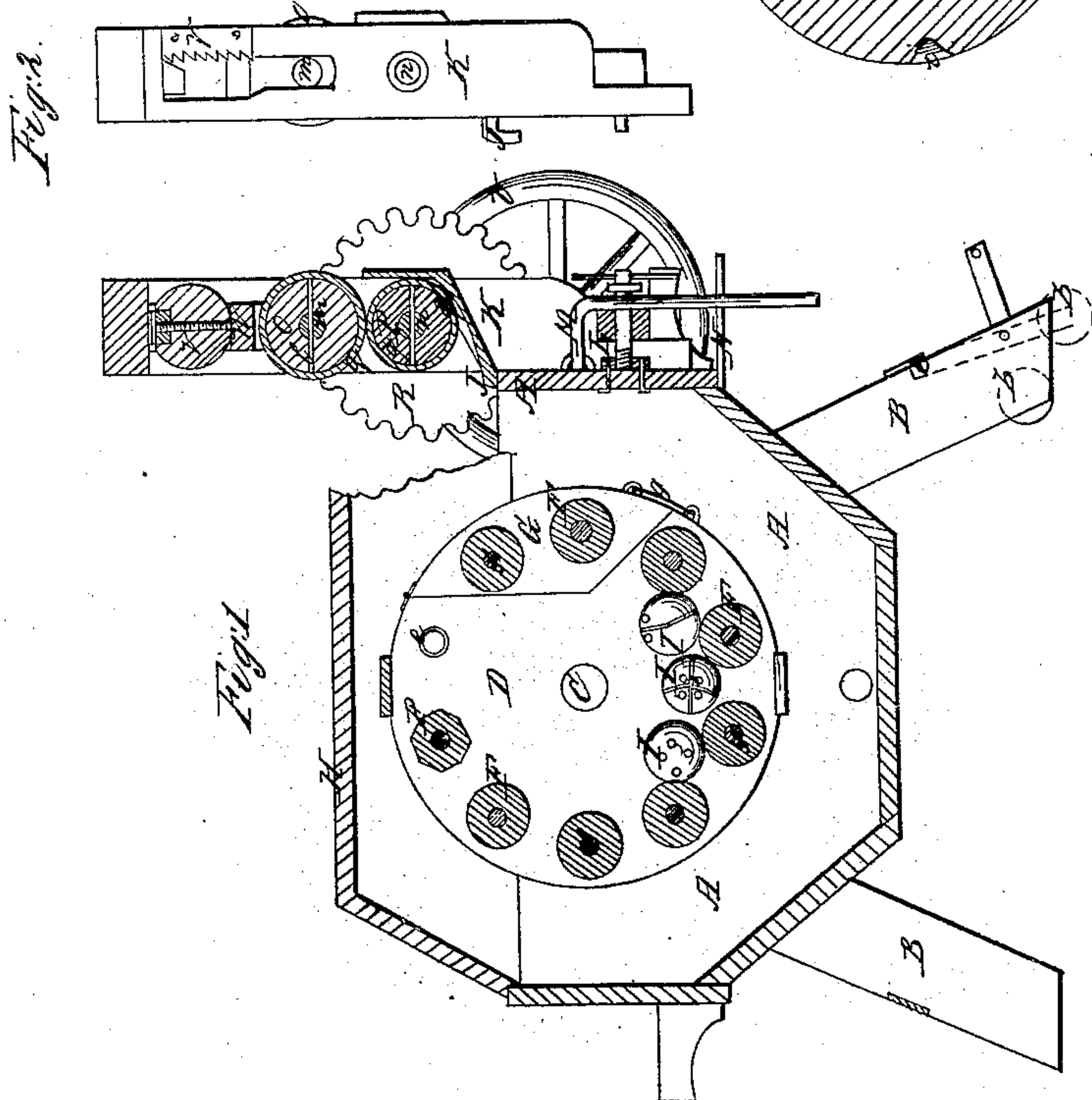
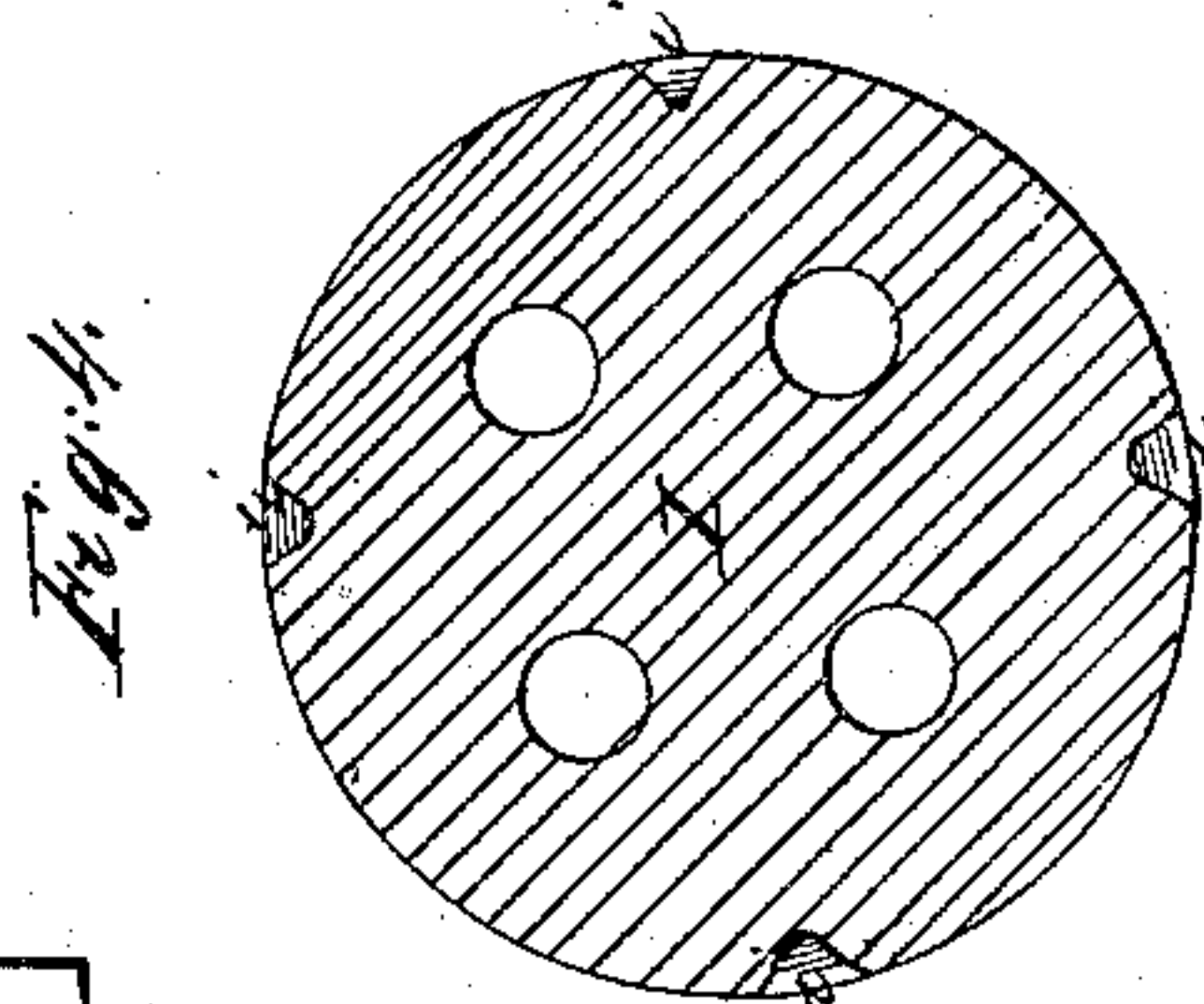
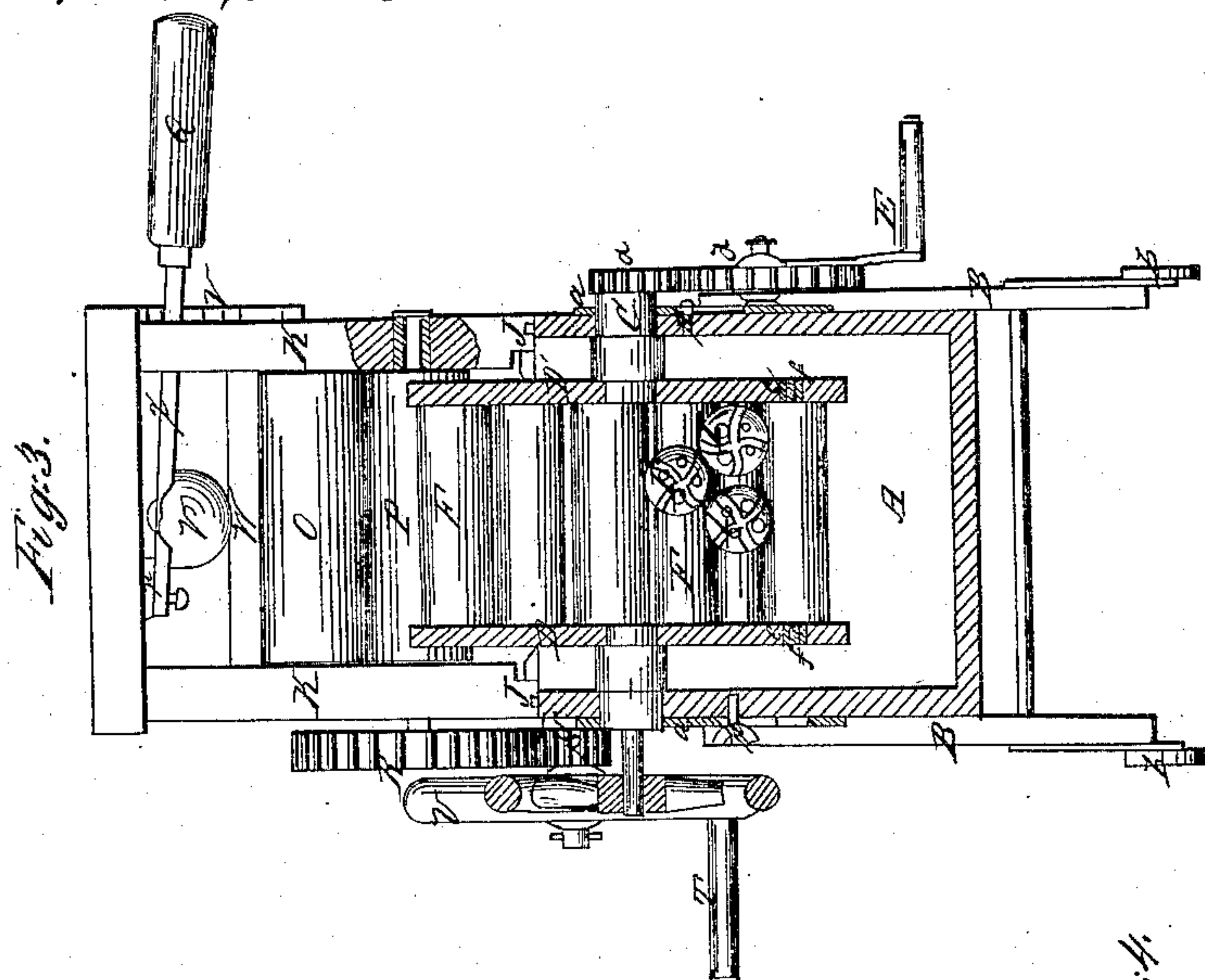


G. Palmer,

Washing Machine,

N^o 61,352.

Patented Jan. 22, 1867.



Witnesses.

*W. J. Ketchum
J. B. Woodruff*

Inventor

George Palmer

United States Patent Office.

GEORGE PALMER, OF LITTLESTOWN, PENNSYLVANIA.

Letters Patent No. 61,352, dated January 22, 1867.

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, GEORGE PALMER, of Littlestown, in the county of Adams, in the State of Pennsylvania, have invented new and useful Improvements in a Combined Washing and Wringing Machine; and 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, in which—

Figure 1 represents a section through a side elevation of the washing machine.

Figure 3 shows an inside end view of the washing machine.

Figure 4 is a section, through a ball to be placed inside of the revolving cylinder to aid in rubbing the clothes, enlarged.

The object of my invention is to facilitate and make easy the washing of clothes, by increasing the power and diminishing the speed of the operative mechanism, and combining the processes of rubbing and compressing, so that they can be operated alternately for cleansing clothes, thereby performing the same functions by machinery that are by hand-washing, in a much easier and more effective manner.

My invention consists, first, in the construction of the revolving cylinder, with its revolving bars or rollers, in combination with the washing balls, so constructed as to be revolved by the action of the water, operating in the manner hereinafter described.

To enable others to make and use my invention, I will describe it more fully, referring to the drawings and to the letters marked thereon.

I make my tub or suds-box, A A, octagonal or circular, and support it at a suitable height on four legs, B B B B, set bracing, so as to make it stand firm when in use. On the bottom of each leg I place a roller, *b b*, so that they may be brought into the position of truck rollers to move the machine on, and turned up, so as not bear on the floor when in use. In both sides of the suds-box A I have sliding journal-boxes, *a a*, for the shaft C of the revolving cylinder washing apparatus to run in, so that the cylinder D can be raised or lowered in the box A to bring the clothes placed in it in contact with as much or little suds or rinsing water as may be desired; the slides *a a*, being adjusted, are secured by the thumb-screws, or their equivalents; the washing apparatus being rotated by a spur gear-wheel or pinion, *c*, on the end of the journal C, and a corresponding gear-wheel, *d*, to which the crank-handle E is secured for operating. The washing is performed equally well by turning the cylinder very slowly, or by an oscillating movement, the crank not requiring to be moved but one-third of the distance to revolve the cylinder or turn it once round, so that a grown person or a child can have the crank-handle E in such a position as to stand or sit, and operate the machine easily. The cylinder D D is made of wood. The two side wheels or disks D' D' may have metal bushings, *e e*, for the arbors *f f* of the rollers F F to run in, if desired. The rollers F F may be round or octagonal, or both; a portion of the cylinder, G, being made to open, to put in and take out the clothes, it being hinged on one side to the disks D' and secured by hooks, *g g*. In the cylinder D, with the clothes to be washed, are placed a number of weighted balls, I I I, they being constructed with angular grooves, *i i i i*, and with holes in them, so that the action of the fluid will turn them in various directions, as they are tumbling about among the clothes when in operation, thereby rubbing every place; the whole washing apparatus being encased by placing the covering-box H over, which keeps all of the heat and steam in while in operation, which greatly facilitates the cleansing of the clothes, and prevents condensation in the room in cool weather, and much lessens the exposure and risk of taking cold.

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

The washing cylinder D D, as constructed with the revolving bars or rollers F F, into which cylinder the clothes are placed, and secured, to be washed, with the balls I I I, constructed as shown and described, the washing apparatus being arranged and combined with the gear-wheels *d* and *c* and the crank-handle E, operating substantially in the manner herein described for the purposes specified.

GEORGE PALMER.

Witnesses:

W. J. KETCHUM,

J. B. WOODRUFF.