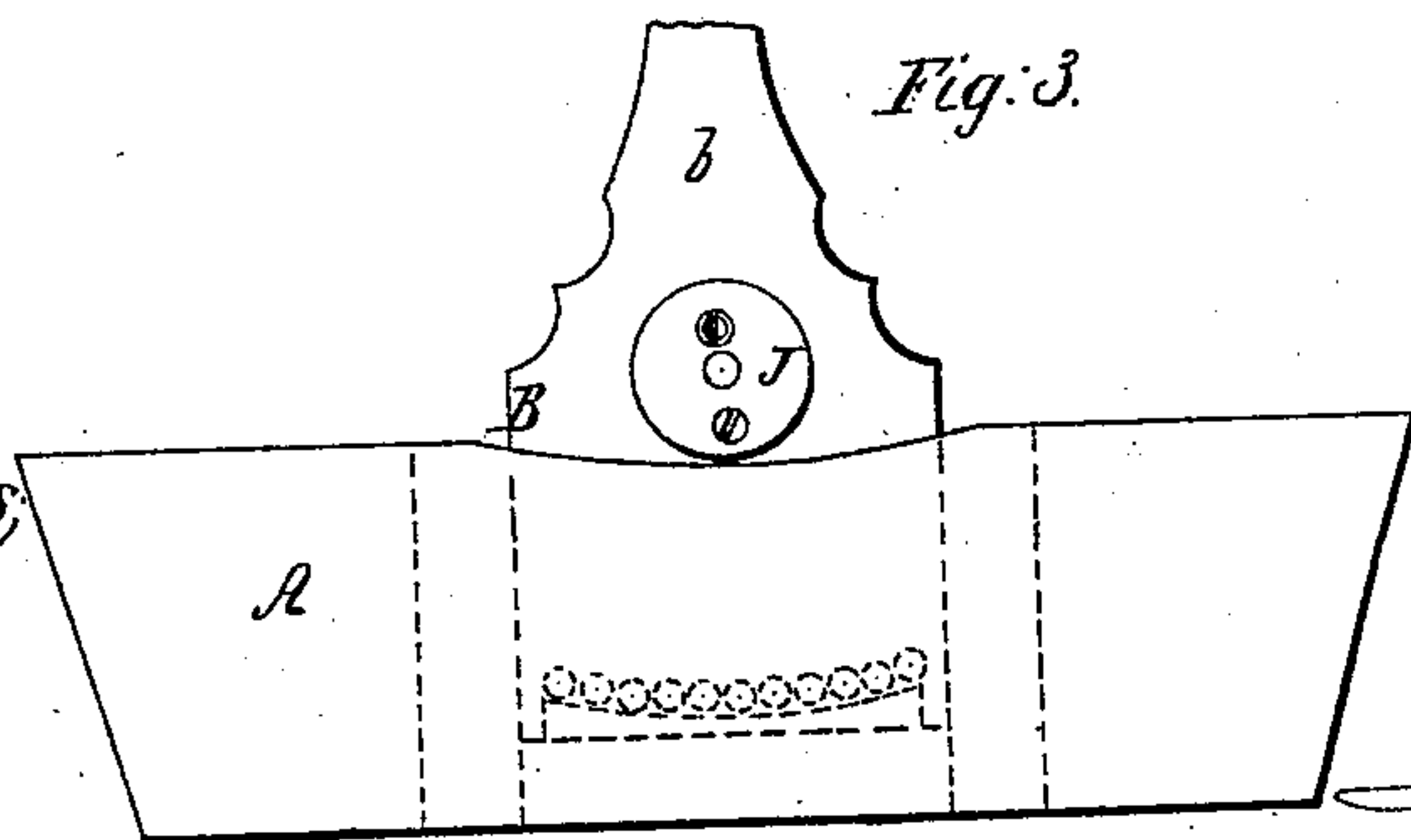
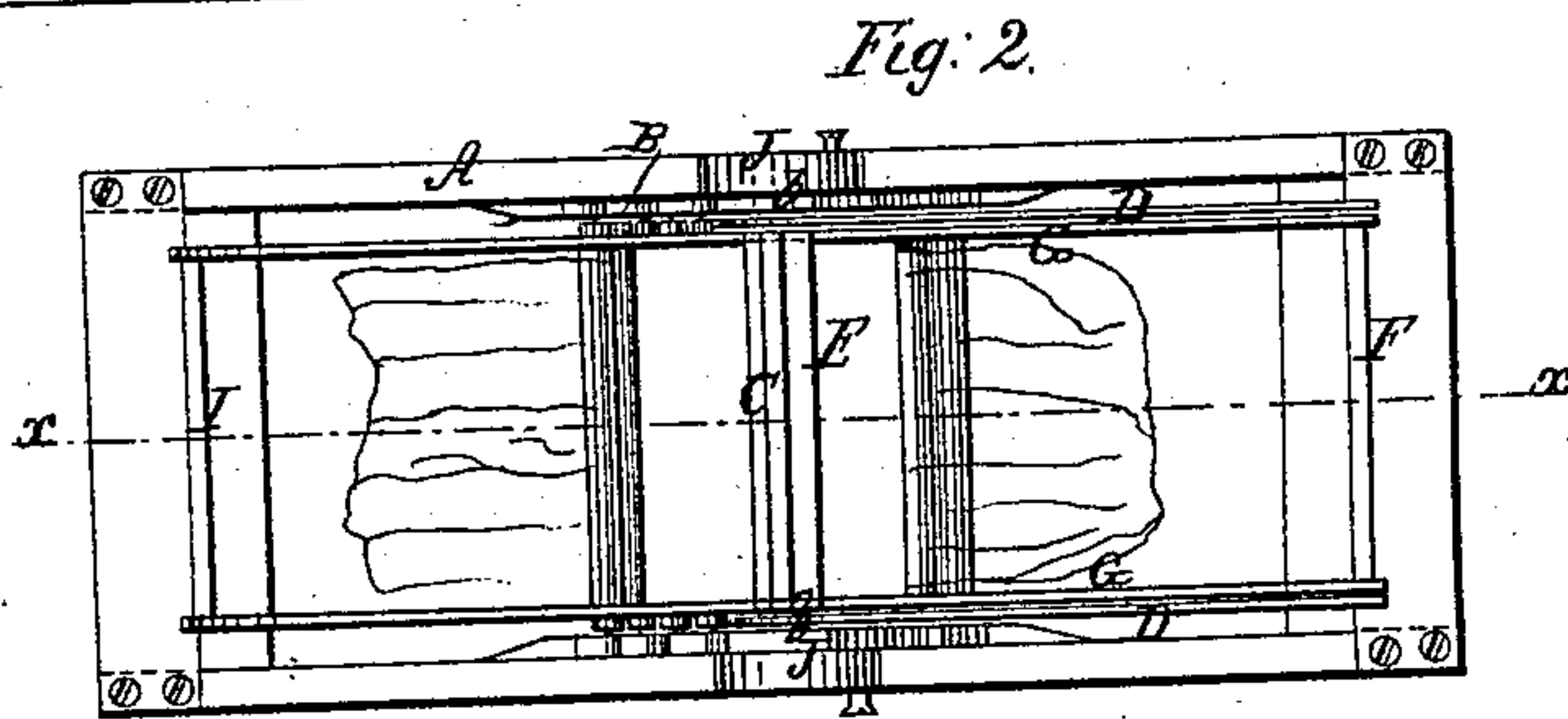
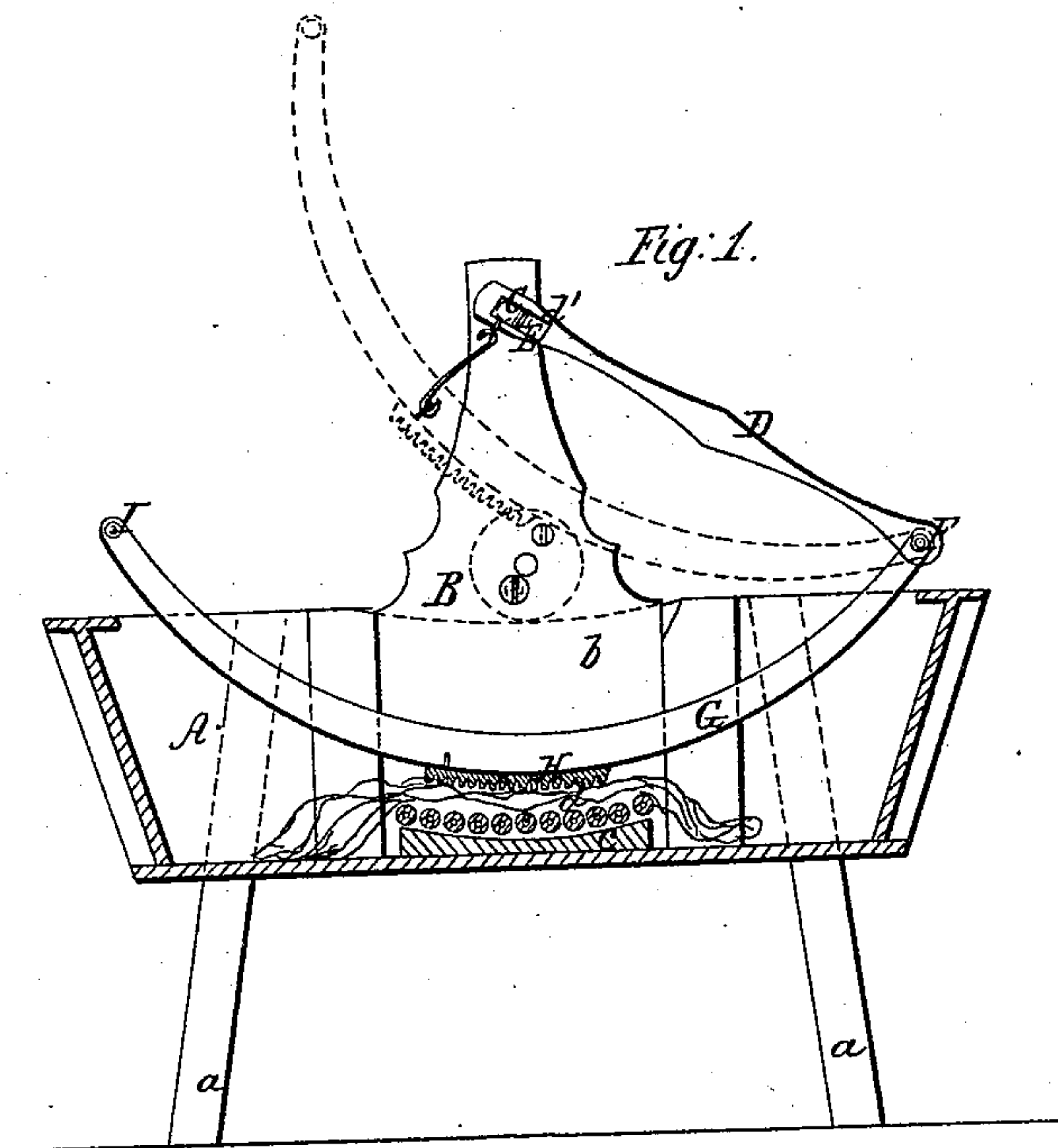


A. B. Clark,

Washing Machine Rubber,

N^o 50,454.

Patented Oct. 17, 1865.



*Witnesses,
N. C. Brown
Geo. T. Smith*

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UNITED STATES PATENT OFFICE.

ARNOLD B. CLARK, OF DELAVAN, WISCONSIN.

WASHING-MACHINE.

Specification forming part of Letters Patent No. 50,454, dated October 17, 1865.

To all whom it may concern:

Be it known that I, ARNOLD B. CLARK, of Delavan, in the county of Walworth and State of Wisconsin, have invented a new and Improved Clothes-Washing Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side sectional view of my invention, taken in the line *x x*, Fig. 2; Fig. 2, a plan or top view of the same; Fig. 3, a side view of the principal portion of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new and improved clothes-washing machine of that class in which a swinging rubber frame is employed, and it consists in a novel arrangement of parts whereby a very simple and efficient machine is obtained for the purpose, and one which may be manipulated with the greatest facility.

A represents the suds-box, supported by legs *a*, at a suitable height; and B represents an upright frame, composed of two uprights, *b b*, connected at their lower ends by a cross-piece, *c*, of concave form in its transverse section, over which a series of rollers, *d*, are placed. This frame B is fitted within the suds-box, its sides or uprights *b b* being in contact with the sides of the suds-box.

C is a shaft which is fitted between the upper parts of the uprights *b b*, and has the upper ends of two bars, D D, fitted loosely upon it, said bars having oblong slots *d'* made in them, through which the shaft C passes.

E is a spring-bar, the ends of which are fitted in the slots *d*, and has its center bearing against the shaft C. This spring-bar has a tendency to keep the bars D D pressed outward, so that the upper ends of the slots *d'* will bear on the shaft C.

The outer ends of the bars D D are connected by a shaft, F, on which one end of two curved or segment bars, G G, are fitted, having a rubber, H, attached, which is curved to correspond to the curvature of the rollers *d*, and has its under or face sides fluted or corrugated. (See Fig. 1.) The opposite ends of the bars G G are connected by a rod, I, which serve as a handle.

The clothes to be washed are placed on the roller concave *d*, and the rubber H moved back and forth over them by swinging the frame composed of the bars G G and rod I, the suds-box being supplied with a requisite quantity of suds, and the spring-bar E admitting of the rubber yielding to a necessary extent.

The frame B is raised or lowered, according to the quantity of clothes to be operated upon, by means of eccentrics J, which are attached one to the outer side of each upright *b*, said eccentrics resting or bearing on the sides of the suds-box. (See Fig. 3.) By this means the rubber frame may always be kept at a convenient height for operating by hand, whether there be more or less clothes in the suds-box. In taking out or putting the clothes into the suds-box the rubber frame is hooked up to the shaft C, as shown in red in Fig. 1.

The important feature in this machine is the manner or mode of suspending the rubber from the center or cross-bar, which allows the same to work in a true circle, and yet being attached to the slotted arms in such a manner as to allow the operator to adjust the same to the rollers at will.

I am aware that there are other machines that operate with suspended rubbers; but they are deficient in the manner in which they are suspended.

What I wish to be understood by the "center" is the center of the circle upon which the whole machine works. The one end of the rubber is attached to the slotted bars in such a manner as to compel the rubber to work in the circle upon which the rollers are placed, leaving the other end to move up and down or adjusted at the will of the operator, so as to accommodate thick or thin garments.

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

The frame B, in which the shaft C and concave of rollers *d* are placed, when said frame is used in connection with eccentrics J, applied and arranged substantially as shown, for raising and lowering the rubber and concave, as set forth.

ARNOLD B. CLARK.

Witnesses:

A. L. MASON,

RICHD. WILLIAMS.