

(No Model.)

2 Sheets—Sheet 1.

L. FLEISCHHAUER.
WASHING MACHINE.

No. 403,829.

Patented May 21 1889.

Fig. 1.

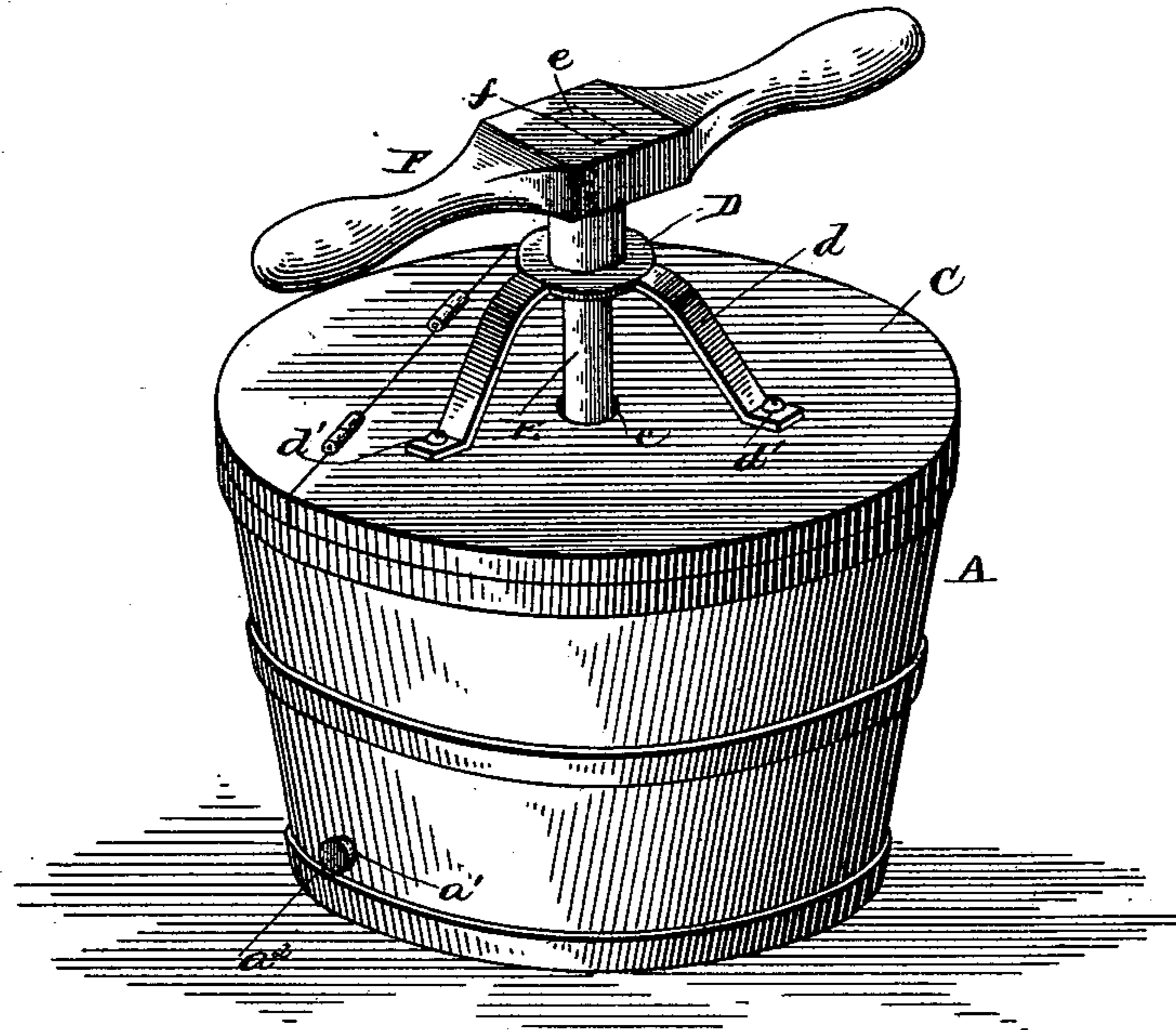
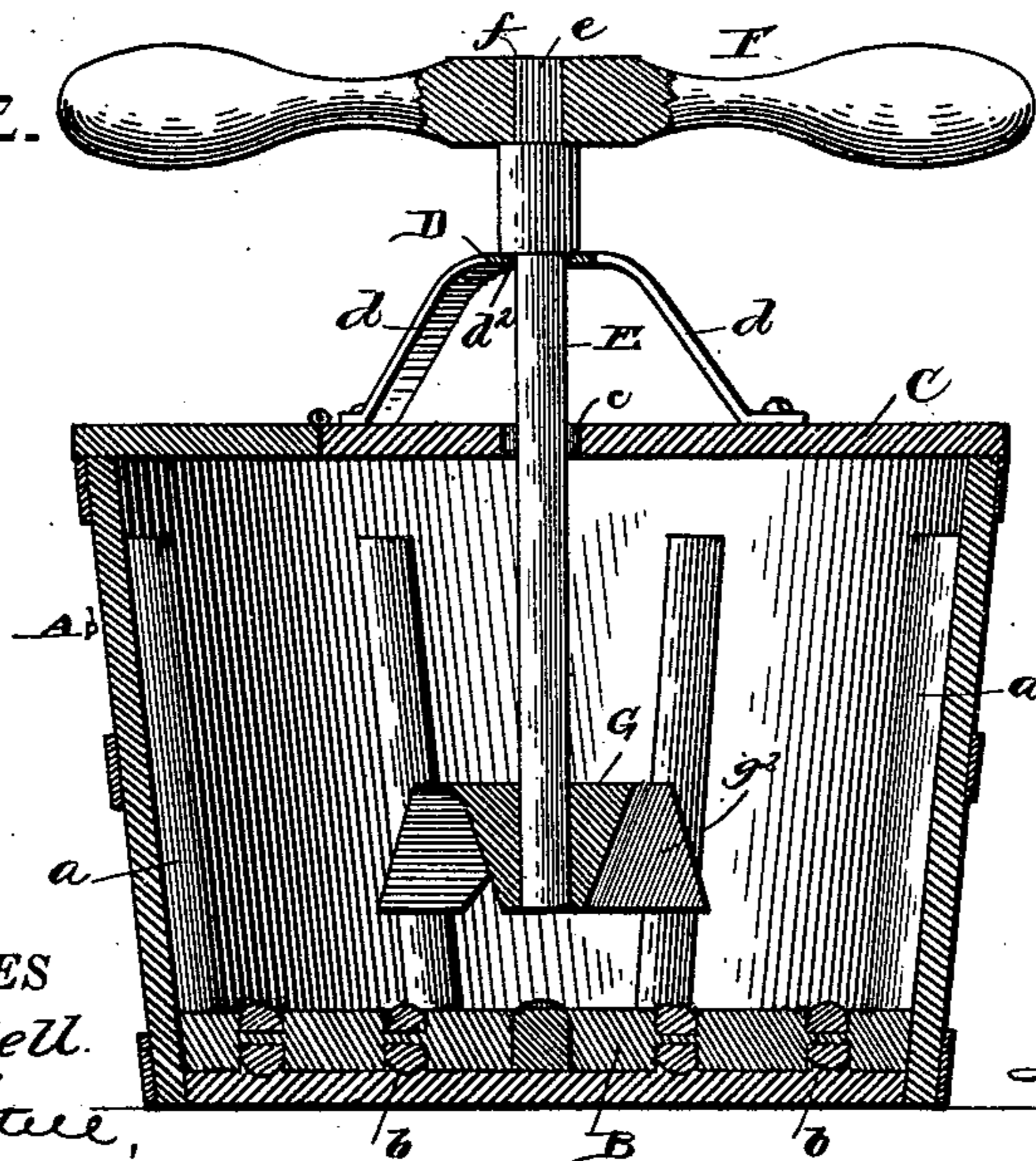


Fig. 2.



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Attorney

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2 Sheets—Sheet 2.

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Fig. 3.

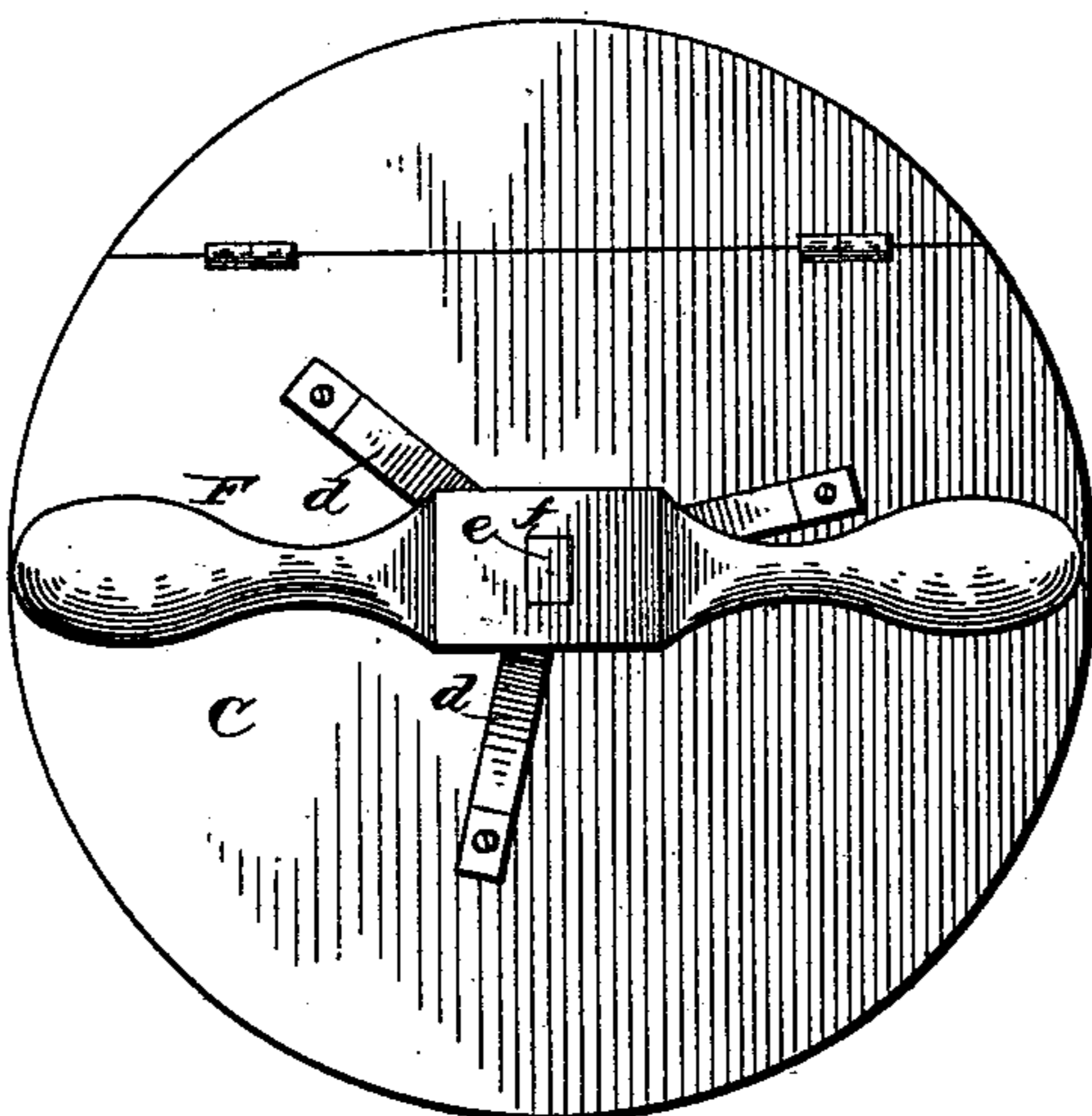


Fig. 4.

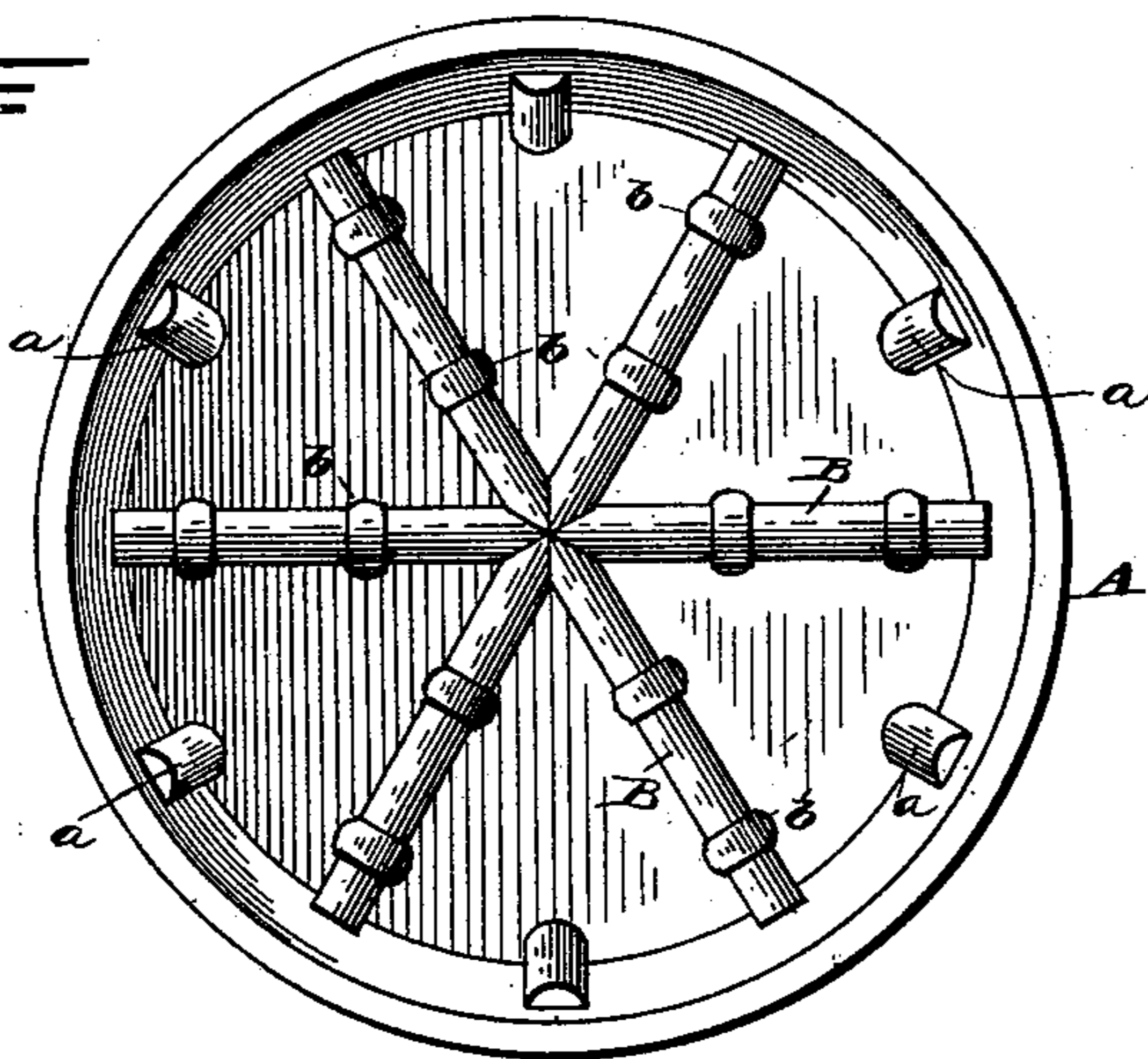
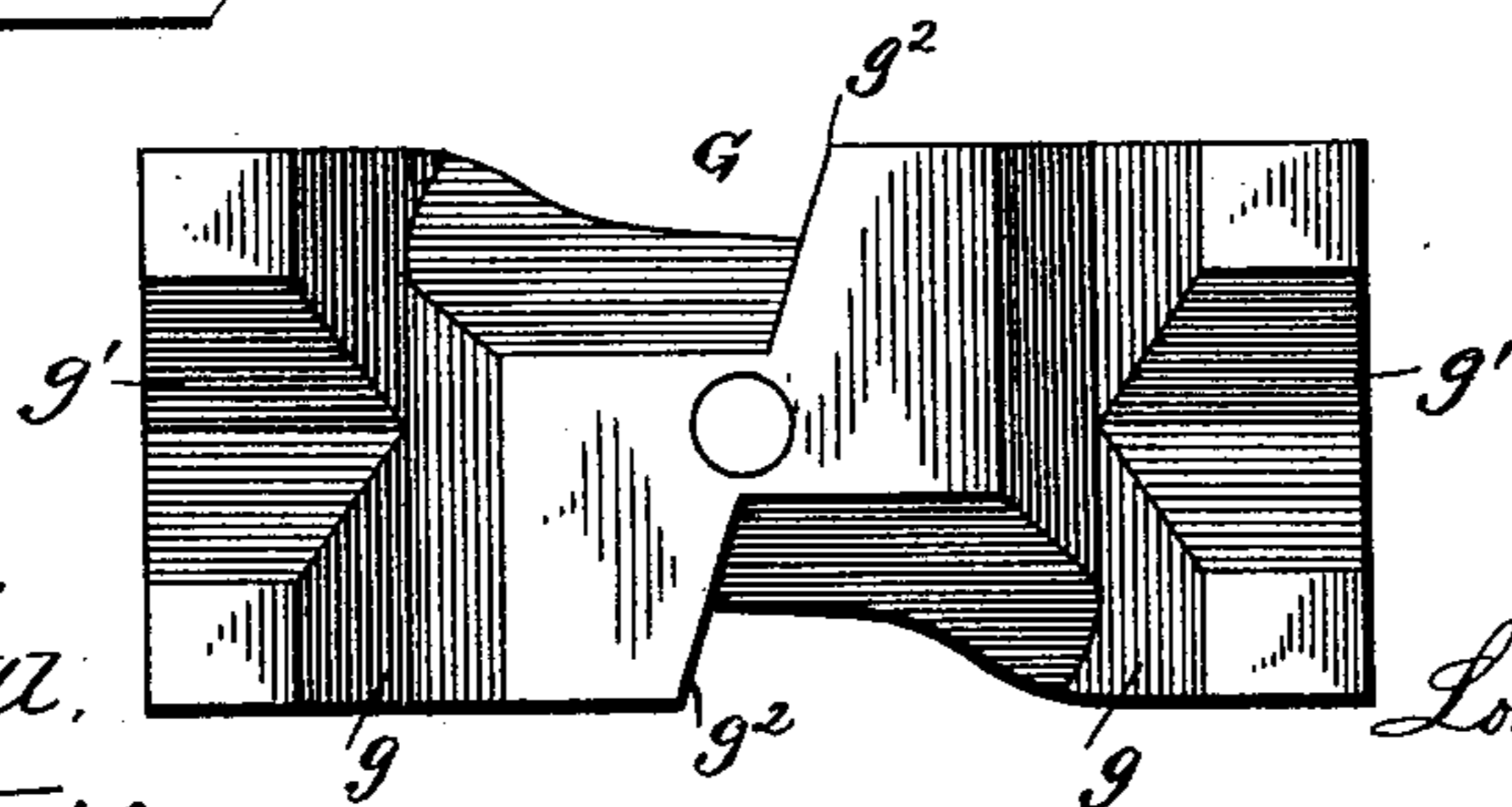


Fig. 5.



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UNITED STATES PATENT OFFICE.

LOUIS FLEISCHHAUER, OF PERRY, TEXAS, ASSIGNOR OF ONE-THIRD TO
JOHANNES WOHLERT, OF SAME PLACE.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 403,829, dated May 21, 1889.

Application filed April 6, 1888. Serial No. 269,832. (No model.)

To all whom it may concern:

Be it known that I, LOUIS FLEISCHHAUER, a subject of the Emperor of Germany, who have declared my intention to become a citizen of the United States, residing at Perry, in the county of Falls and State of Texas, 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 invention, which will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to washing-machines; and its object is to provide a simple and improved device of this character, which can be efficiently operated, whether there be a small or large quantity of clothing, and which will possess advantages in point of inexpensiveness, durability, and general efficiency.

In the drawings, Figure 1 is a perspective view of a washing-machine embodying my invention. Fig. 2 is a vertical transverse sectional view. Fig. 3 is a top or plan view. Fig. 4 is a similar view with the cover removed. Fig. 5 is a detail bottom or inverted plan view of the rubber.

Corresponding parts in the figures are denoted by the same letters of reference.

Referring to the drawings, A designates the tub, preferably formed cylindrical in cross-section and flaring toward the opening at the top, and is provided with a series of vertical ribs, *a*, around the side walls thereof, and with a hole, *a'*, near the bottom of the side walls, having a plug, *a*².

Upon the bottom of the tub is provided a series of transverse interior ribs, B, having journaled thereon a series of balls or rollers, *b*, adapted to rotate when the clothes are turned in the tub. The tub has a hinged cover, C, provided with a circular eye or opening, *c*. Upon the cover is a metallic plate, D, having divergent arms *d*, which are bent down and secured to said cover by screws passing through eyes *d'* in the ends thereof. This plate is provided with an eye or opening, *d*², just above the eye *c* and on a vertical line therewith. These eyes or perforations *c d*² form bearings for a vertically-adjustable shaft, E, which is provided with an angular upper end, *e*, upon which operating-handle F, provided with a corresponding angular recess, *f*, is removably secured.

G designates the rubber, which is secured to the lower end of the shaft E. This rubber is approximately rectangular in horizontal cross-section and preferably larger at the bottom than at the top, and is provided upon its under side near its ends with transverse grooves *g g*, extending entirely across the same. *g' g'* designate two similar but larger grooves extending at right angles from the grooves *g* to the ends of the rubber. The rubber is also cut away in opposite directions at each side, as shown, forming shoulders *g*² *g*² at each side the center thereof.

The operation and advantages of my invention will be readily understood by those skilled in the art to which it appertains.

The cover is opened upon its hinges and the clothes to be cleansed placed in the tub and water poured upon them. The cover is then closed and the rubber turned back and forth upon the clothes by means of the operating-handle, thereby thoroughly cleansing the clothes.

It will be obvious that by the provision of the improved vertically-adjustable rubber the washer operates as efficiently with a small as with a large quantity of clothes.

I claim as my invention—

1. A rubber for washing-machines, adapted to be attached to the lower end of a shaft constructed substantially rectangular with beveled sides, and whose bottom has inward cuts reversely arranged in the sides to form parallel oblique abrading edges *g*², and angular end cuts, *g'*, substantially as described.

2. A washing-tub having radial ribs of equal width throughout their lengths running to a common center, and having a pair of rollers arranged on each rib at an equal distance from said center to form a uniform support for a rubber, and said ribs also forming pockets between each, and the sides of the tub having upright ribs projecting down centrally between the ends of said radial ribs to form counteracting abrading projections, as described, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

LOUIS FLEISCHHAUER.

Witnesses:

W. J. FINKS,
J. WOHLERT.