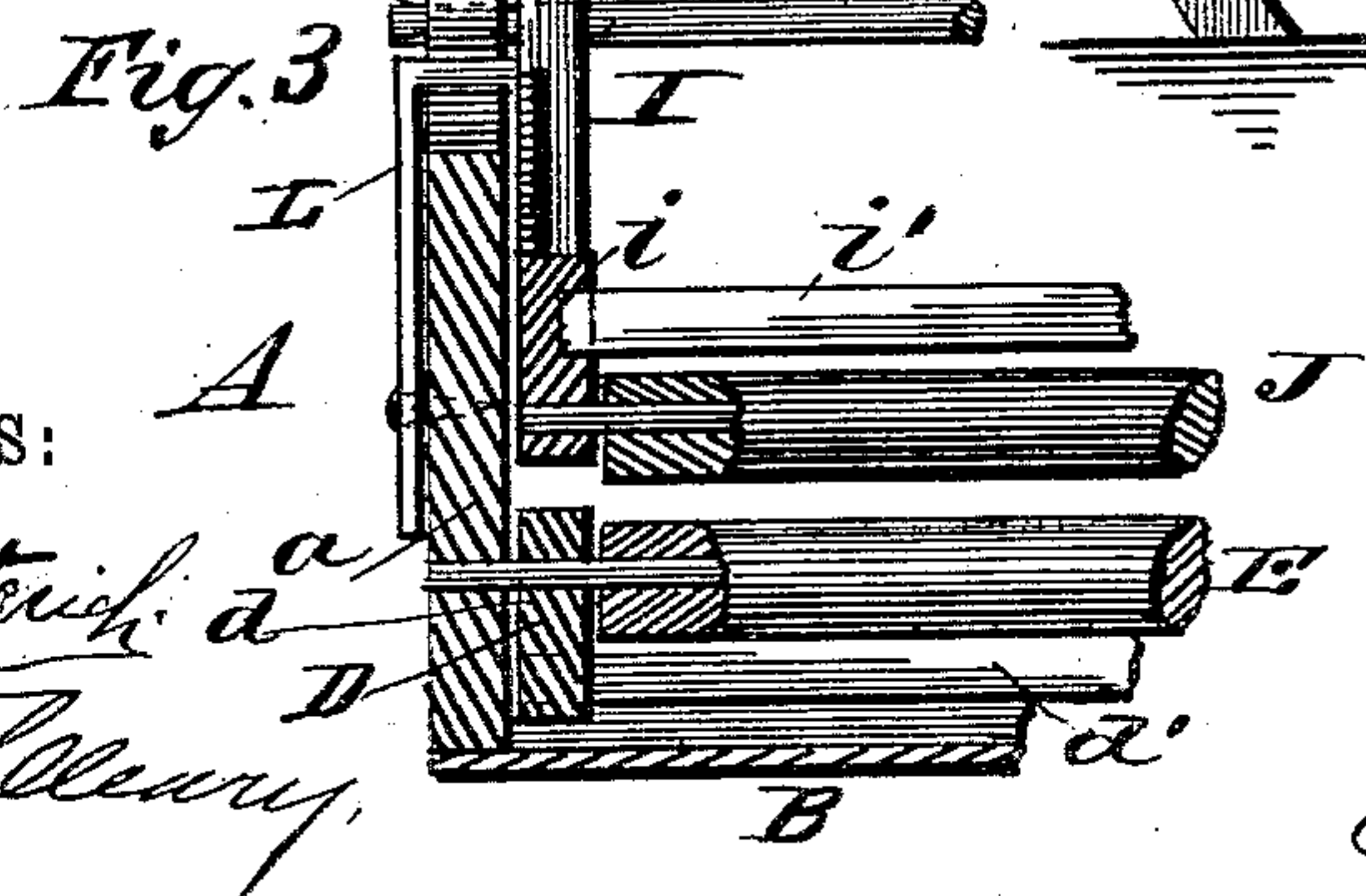
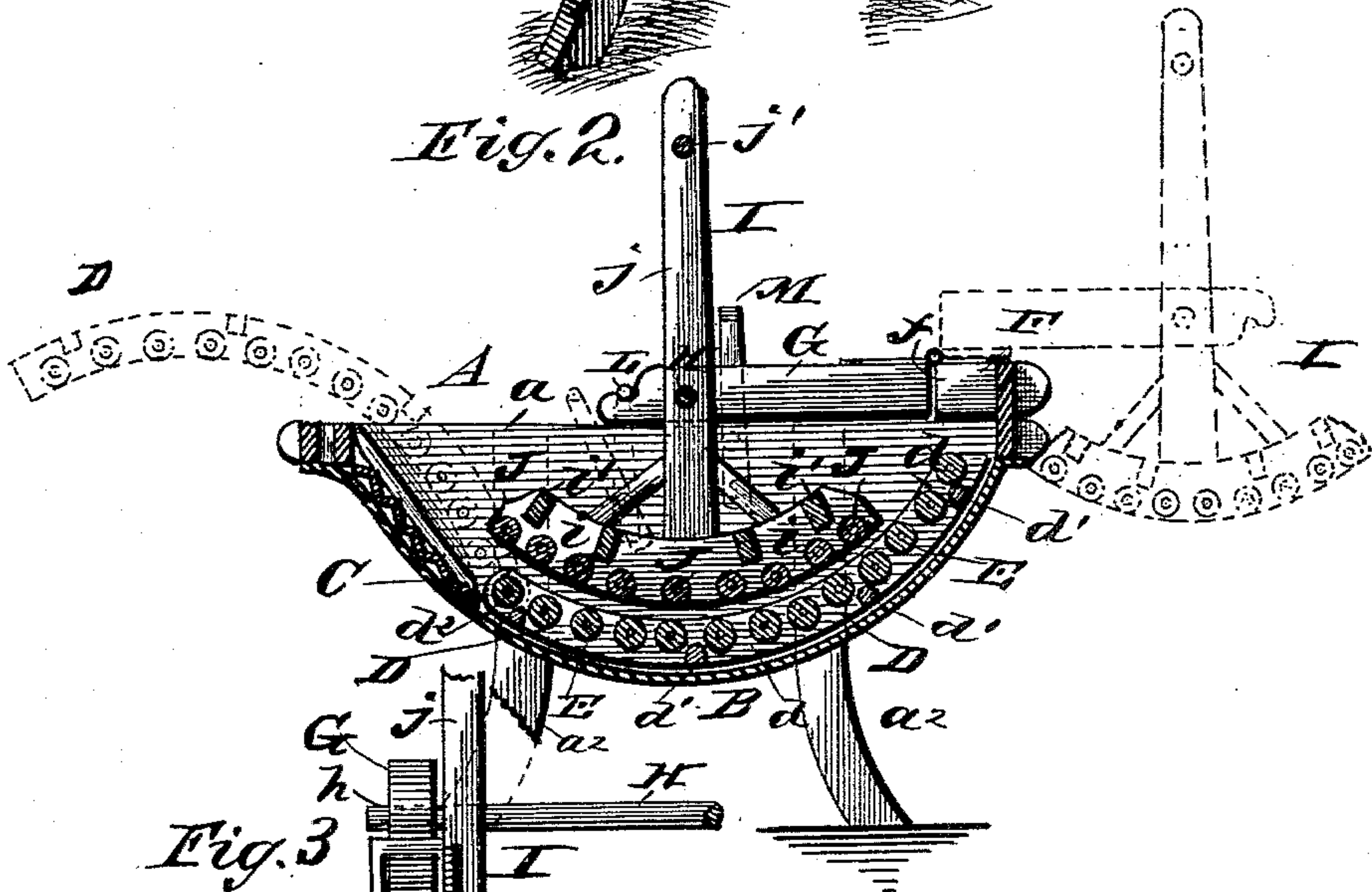
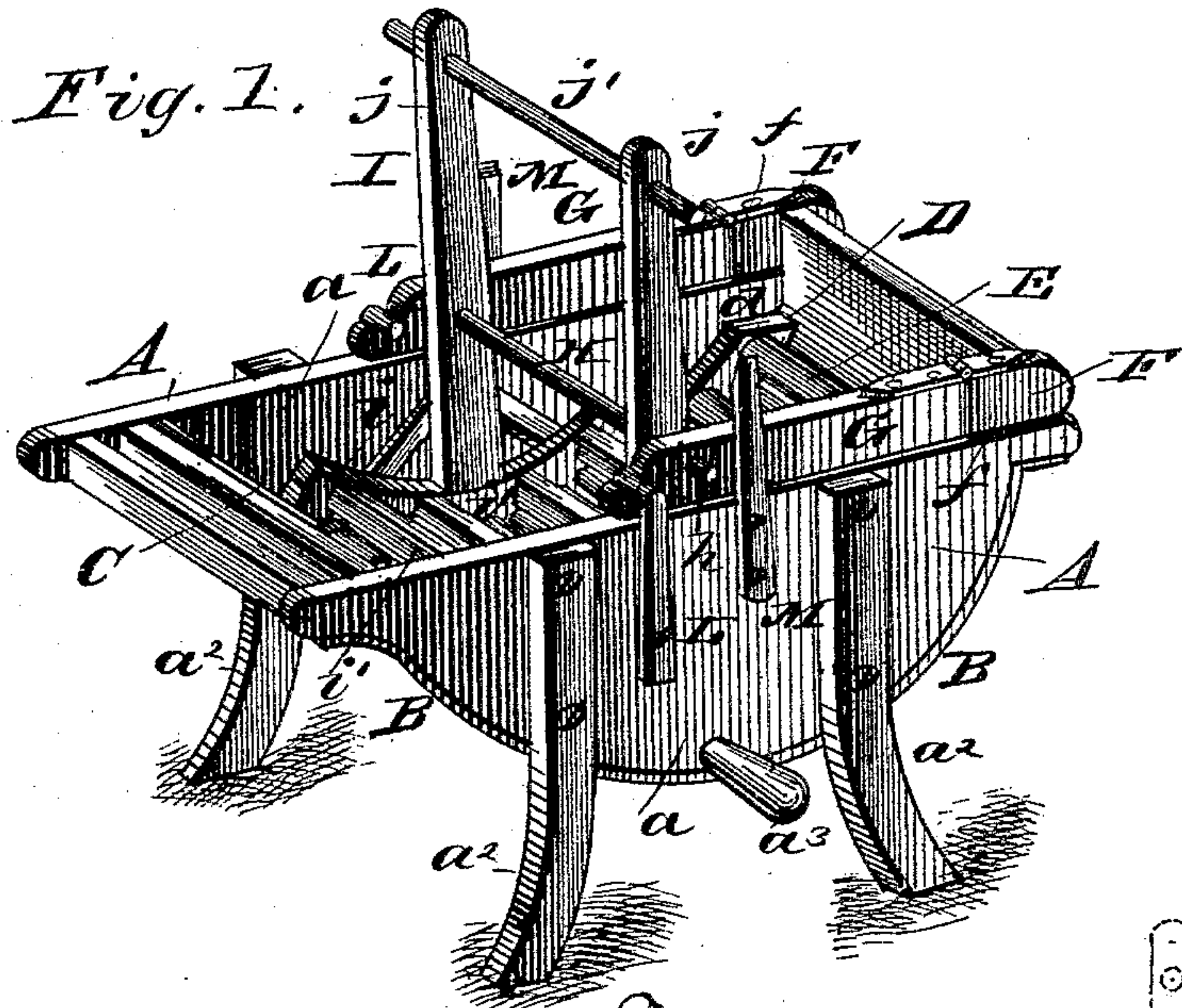


(No Model.)

C. P. KELLER.
WASHING MACHINE.

No. 359,977.

Patented Mar. 22, 1887.



WITNESSES:

Phil G. Dietrich
J. D. McLeary

INVENTOR

BY

C. P. Keller
John E. H.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

COMMODORE PERRY KELLER, OF FALL RIVER, ASSIGNOR OF ONE-HALF TO
FRANCIS M. KELLER, OF AUGUSTA, KANSAS.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 359,977, dated March 22, 1887.

Application filed December 9, 1884. Serial No. 149,865. (No model.)

To all whom it may concern:

Be it known that I, COMMODORE PERRY KELLER, a citizen of the United States, residing at Fall River, in the county of Greenwood and State of Kansas, have invented certain new and useful Improvements in Washing-Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to washing-machines, the object being to provide a machine adapted to thoroughly cleanse clothing with the minimum amount of wear upon them.

A further object of the invention is to provide a machine of convenient and durable form.

The invention consists in the features of construction and combinations of parts, hereinafter fully described, and pointed out in the claim.

In the drawings, Figure 1 represents a perspective view of a machine constructed in accordance with my invention, parts being shown in dotted lines. Fig. 2 is a central longitudinal section; and Fig. 3 represents parts in detail.

A represents the tub or box of the machine, of semicircular form, consisting, preferably, of parallel wooden sides *a a* and a metallic bottom, B. The box is supported upon suitable legs, *a'*, and is provided with an outlet and plug, *a''*.

C represents a section of wash-board secured upon the bottom B at one end of the machine.

D represents a semicircular frame, consisting of curved side bars, *d d*, and transverse braces *d'*. This frame conforms to the curvature of the bottom B, upon which it rests, and is pivoted upon screw-pivots *d''*, just below the wash-board C. The sides of the frame are

formed with bearings, within which are supported a series of rollers, E. At the opposite end of the box from the wash-board C is secured a frame, F, to the inner ends, *f*, of which are hinged arms G G. The latter are each formed with a bearing, *h*, to receive the ends of the shaft H of the reciprocating rubber I. The rubber consists of semicircular side bars, *i*, connected by braces *i'*, and formed with bearings for a series of rollers, J, parallel standards *j j*, a handle-rod, *j'*, and pivotal shaft H. The inner ends of the arms G G are notched to be engaged by spring hook-clamps L L, which are secured at their lower ends to the outer sides of the box.

M M represent guards secured to the sides of the box opposite each other, to assist in securing the arms G G in place.

From the construction thus described it will be apparent that the rubber may be readily raised to allow the clothes to be placed between it and the bottom rollers of the machine. The rollers prevent wear and injury to the clothes.

The wash-board section is a convenient feature, and permits of hand-rubbing when necessary.

The frame carrying the bottom rollers may be readily raised, as well as the rubber, for the purpose of cleaning the box and other parts of the machine.

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

The combination, with the box and the bottom rollers and frame, of hinged arms G G, supporting the rubber, spring-clamps for engaging said arms, and guards secured to the sides of the box, substantially as set forth.

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

COMMODORE PERRY KELLER.

Witnesses:

G. W. MONTGOMERY,
F. M. KELLER.