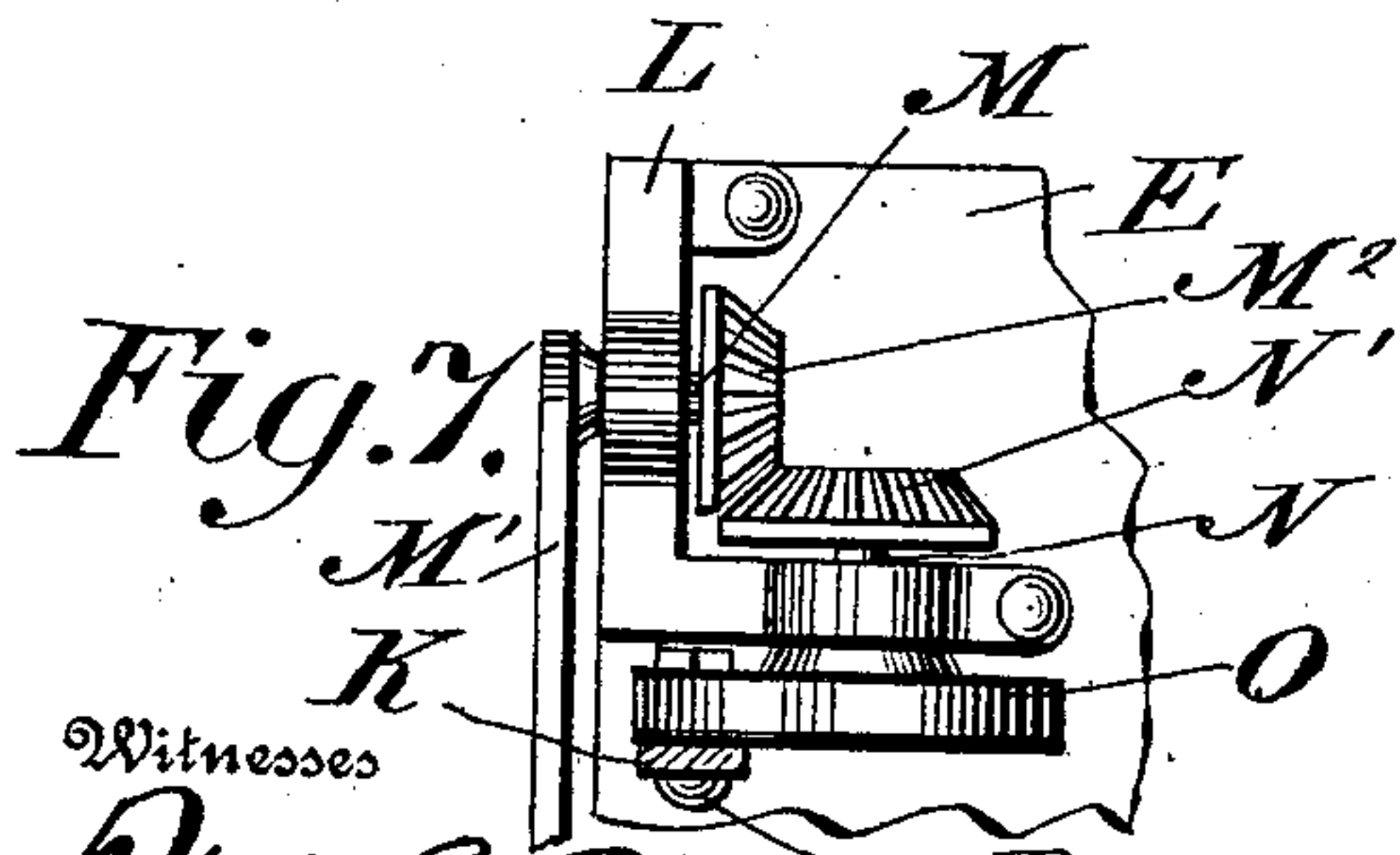
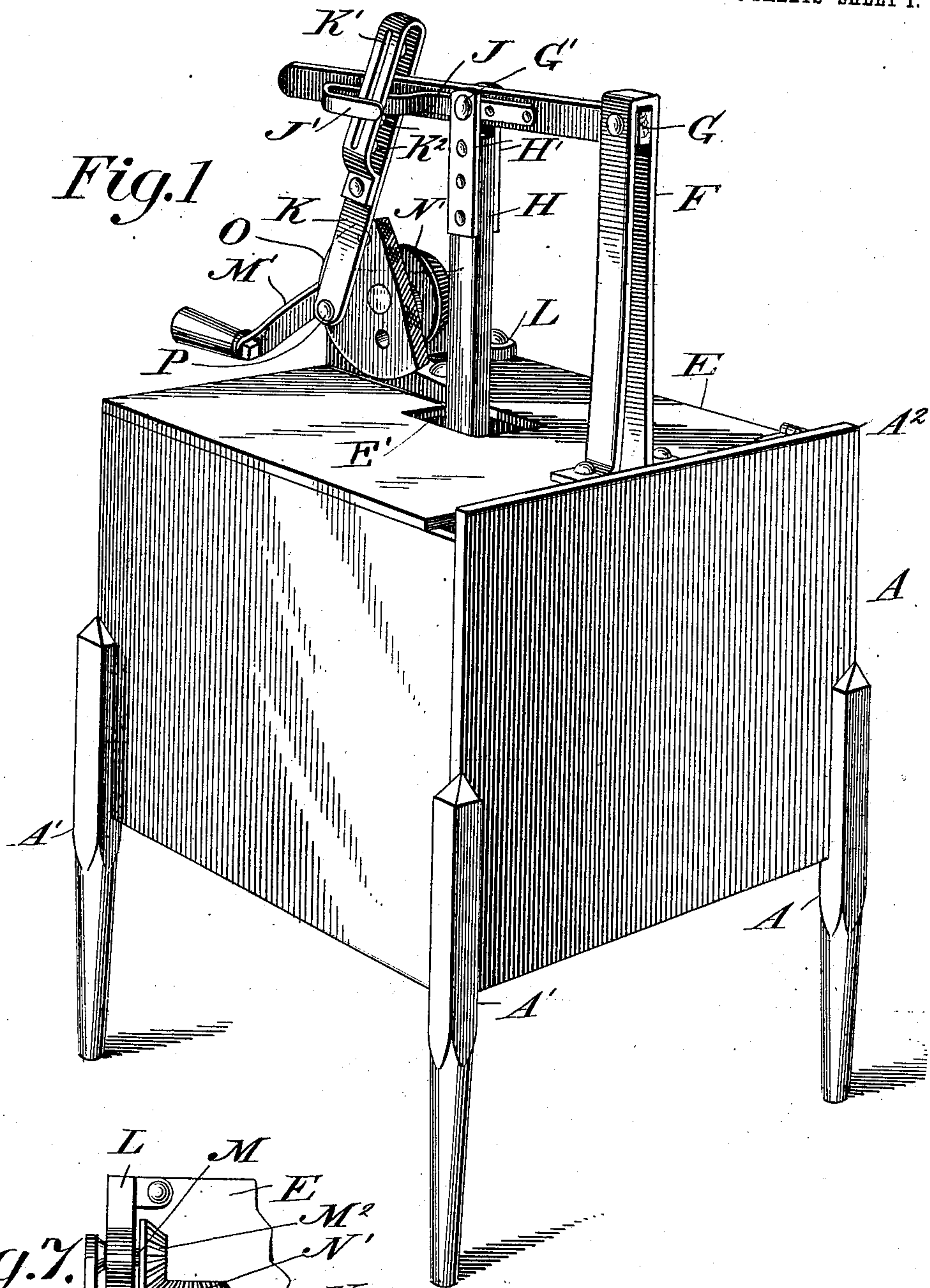


No. 886,845.

PATENTED MAY 5, 1908.

A. T. NEWMAN.  
WASHING MACHINE.  
APPLICATION FILED MAR. 22, 1907

3 SHEETS—SHEET 1.



Witnesses  
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3 SHEETS—SHEET 2.

Fig. 2.

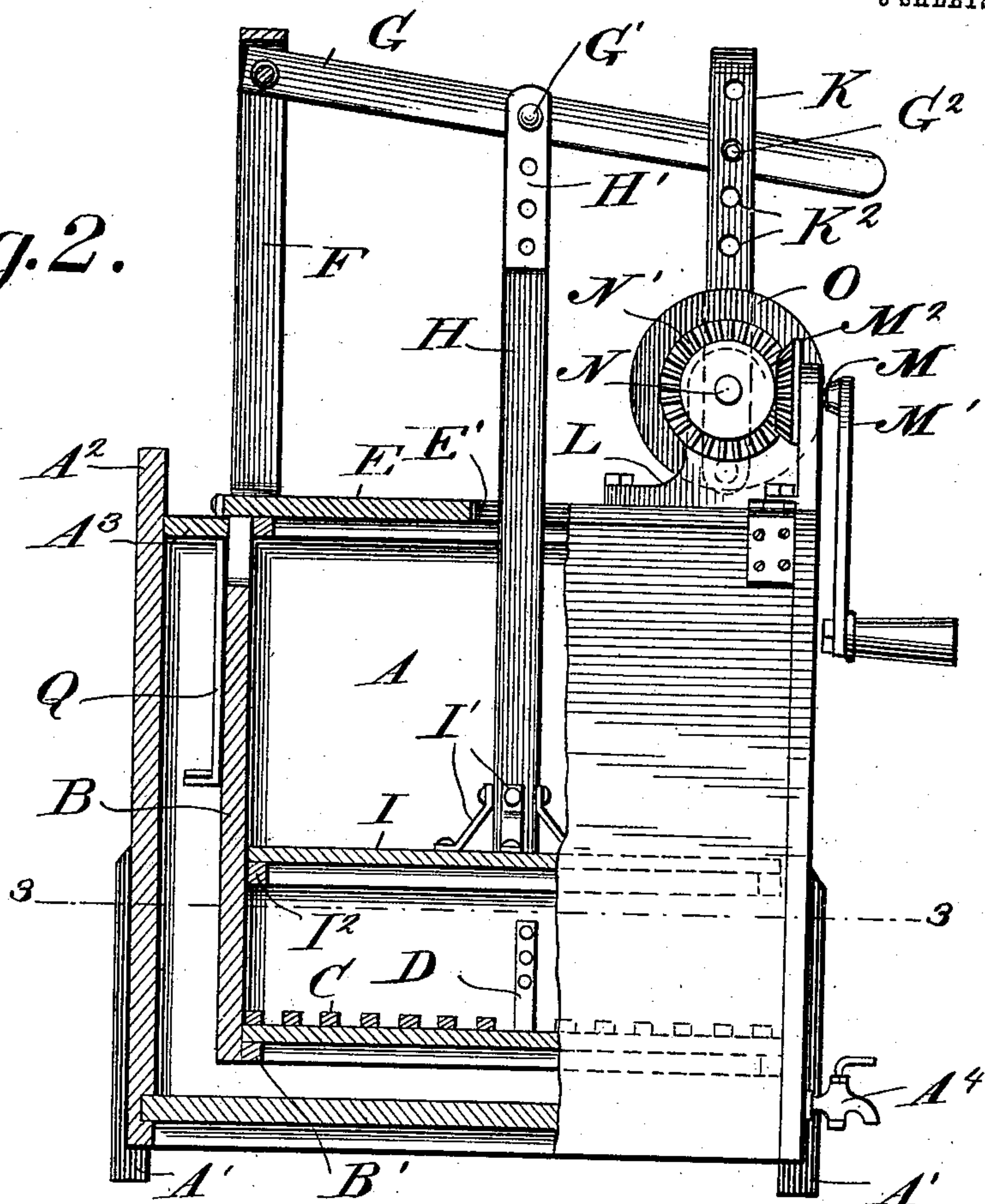
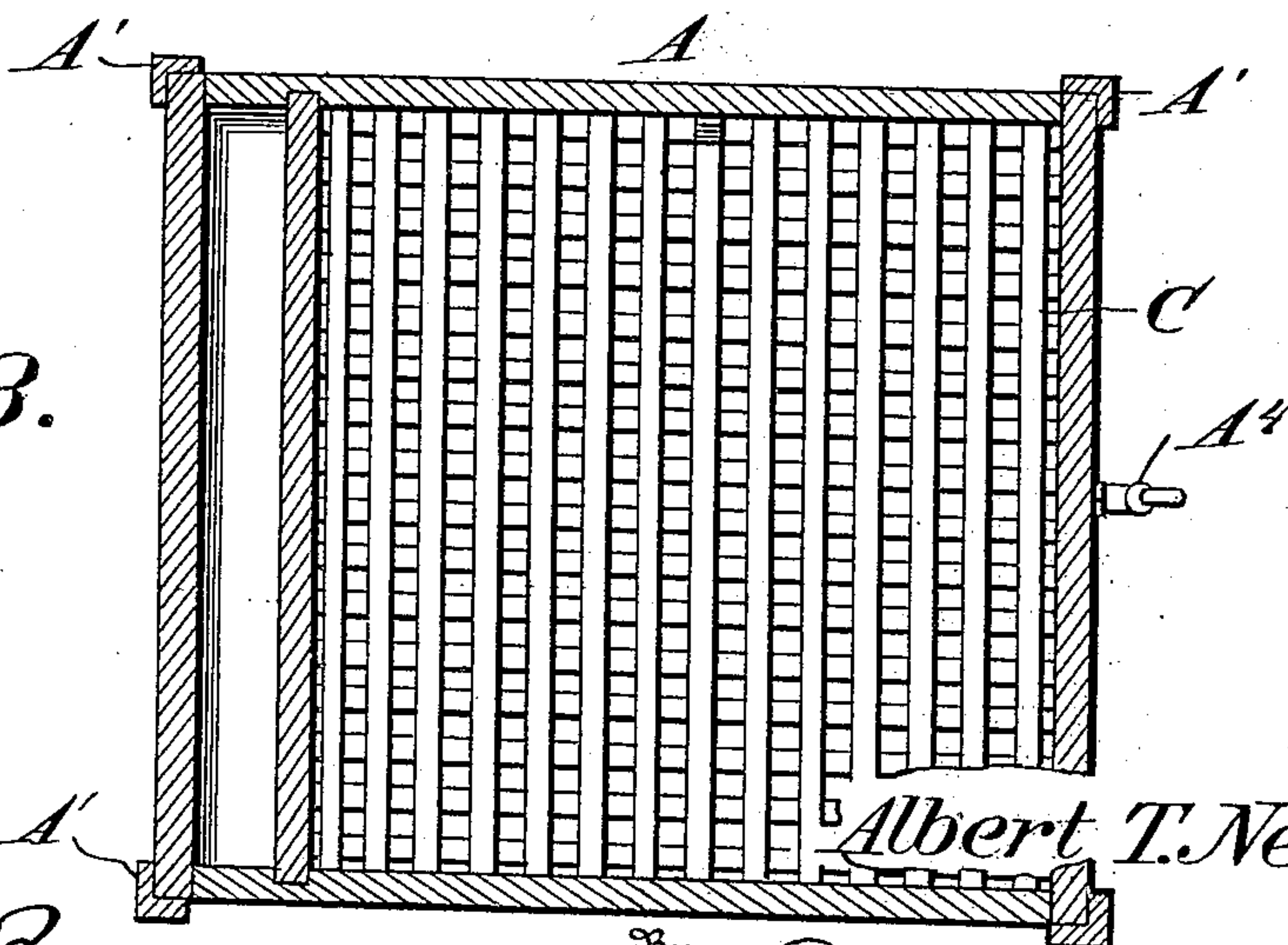


Fig. 3.



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3 SHEETS—SHEET 3.

Fig. 4.

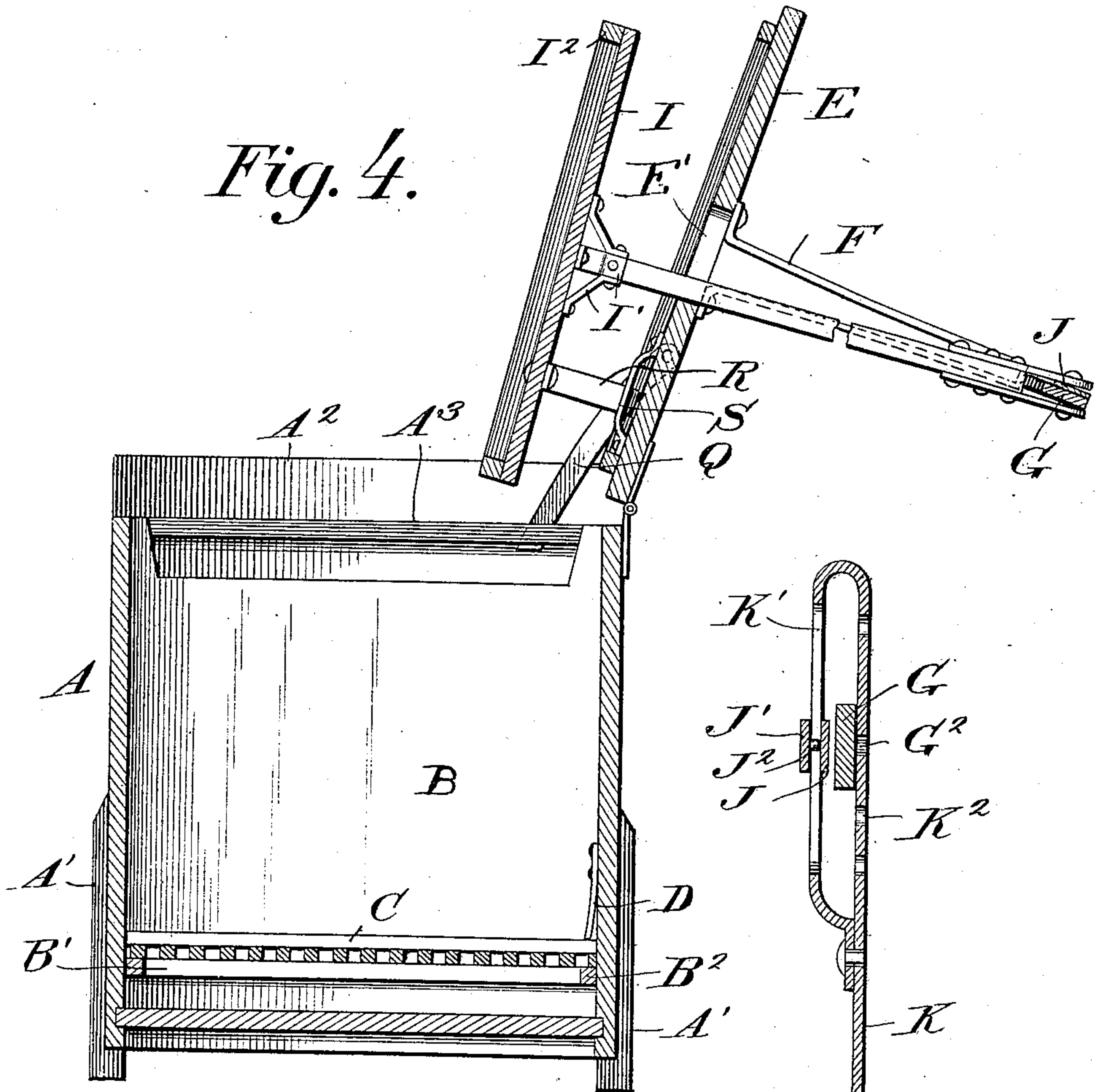


Fig. 5.

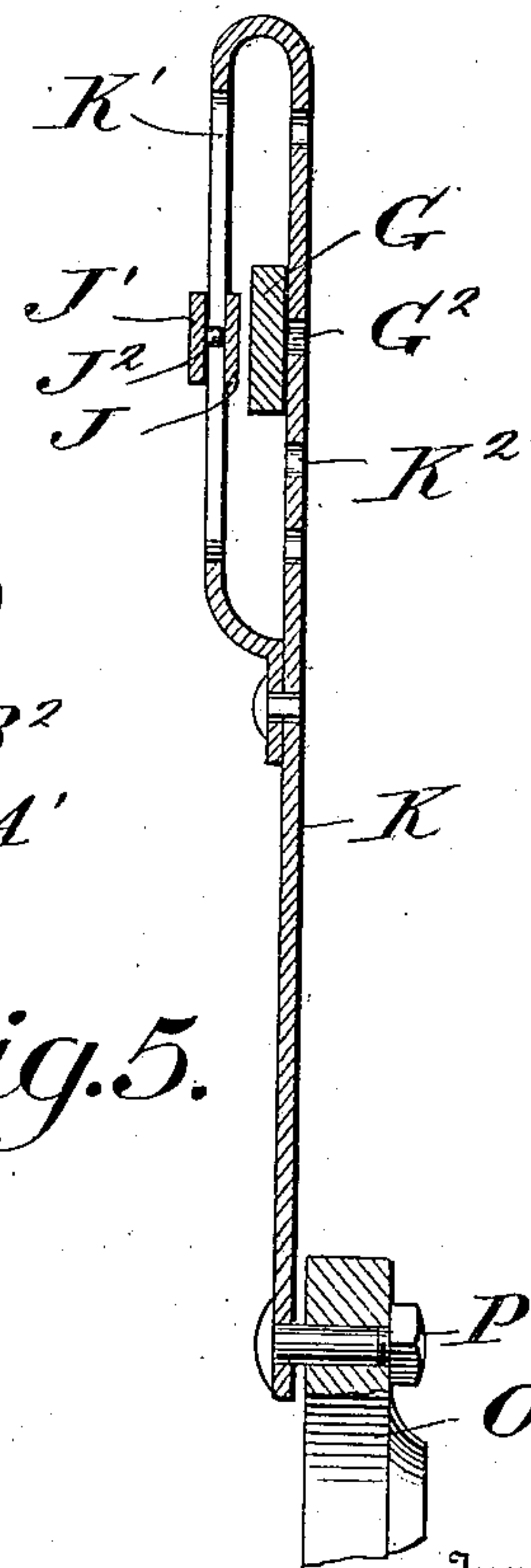
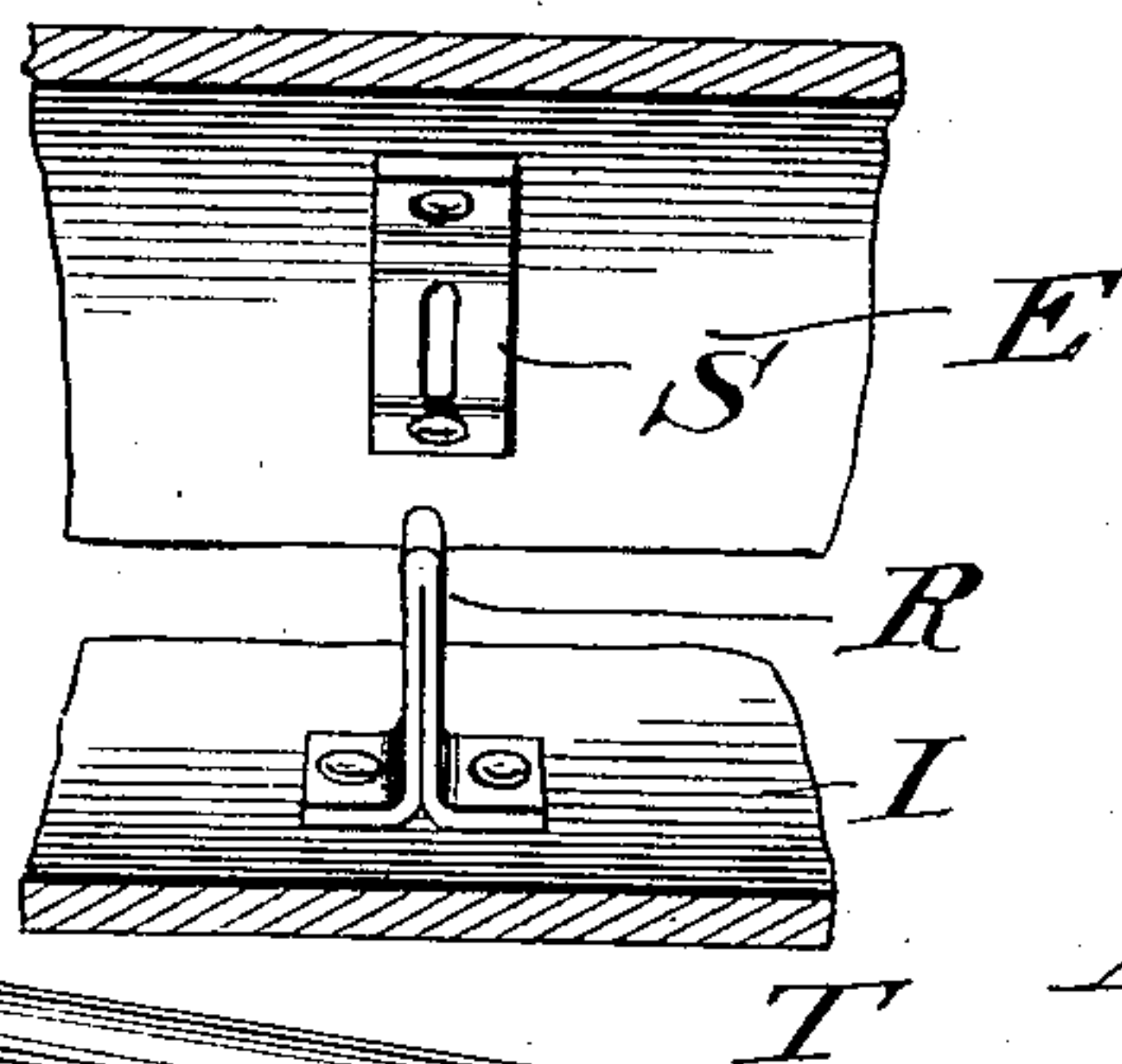


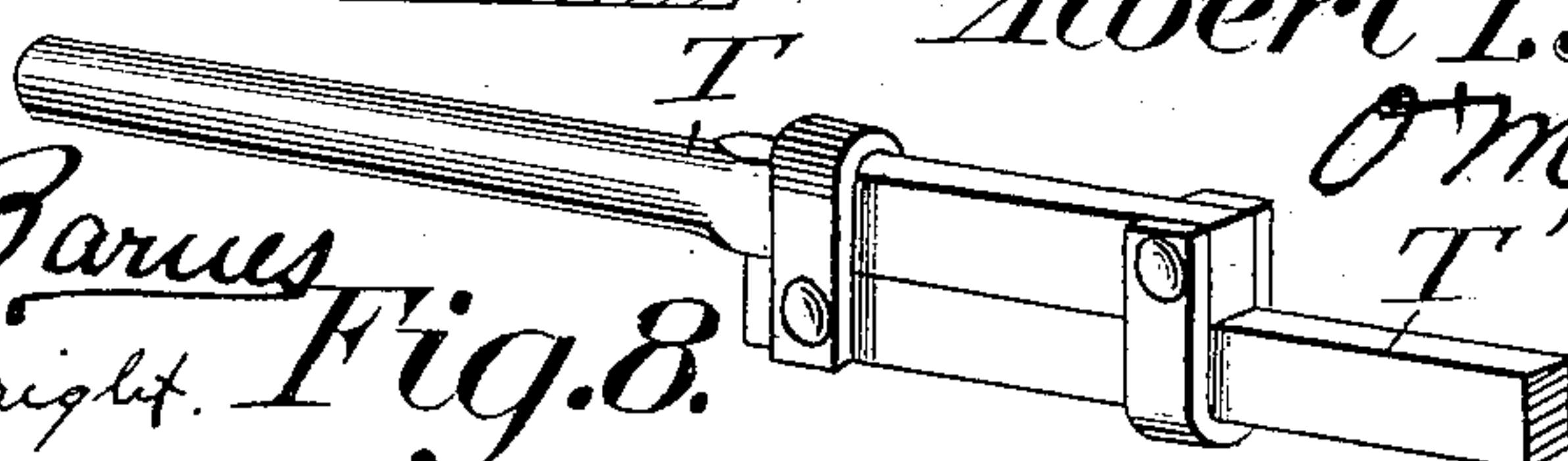
Fig. 6.



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Fig. 8.



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# UNITED STATES PATENT OFFICE.

ALBERT T. NEWMAN, OF GREELEY, KANSAS.

## WASHING-MACHINE.

No. 886,845.

Specification of Letters Patent.

Patented May 5, 1908.

Application filed March 22, 1907. Serial No. 363,922.

*To all whom it may concern:*

Be it known that I, ALBERT T. NEWMAN, a citizen of the United States, residing at Greeley, in the county of Anderson and State of Kansas, have invented a new and useful Improvement in a Washing-Machine, of which the following is a specification.

This invention relates to washing machines and more particularly to reciprocating washing machines for forcing the water through the clothes; the object being to provide a machine which is very simple and cheap in construction and which is very effective in use.

Another object of my invention is to provide a washing machine which will wash the clothes by the circulation of the water through the same, caused by the reciprocation of the plunger without subjecting the clothes to any wear caused by rubbing.

Another object of my invention is to provide very novel means for adjusting the pitman rod so that the stroke of the piston rod can be regulated as desired.

With these and other objects in view, the invention consists in the novel features of construction, combination and arrangement of parts hereinafter fully described and pointed out in the claims.

In the drawings forming a part of this specification:—Figure 1 is a perspective view of my improved washing machine. Fig. 2 is a vertical sectional view partly in elevation. Fig. 3 is a horizontal sectional view taken on lines 3—3 of Fig. 2. Fig. 4 is a vertical sectional view of the machine, showing the cover and plunger swung up out of the machine so that the clothes can be readily put in or taken out of the machine. Fig. 5 is a vertical sectional view through the pitman rod, operating lever and adjusting spring. Fig. 6 is a perspective view of the catch for holding the plunger when swung up out of the machine. Fig. 7 is a detail view of the drive gearing, and Fig. 8 is a perspective view of an operating handle adapted to be secured on the lever.

Referring to the drawings A indicates the body of the machine mounted on legs A', which is provided with an upwardly projecting side A<sup>2</sup> having an inwardly projecting strip A<sup>3</sup> secured thereto, in alinement with the top of the other side, to which is secured the bifurcated end of a partition B, which extends down into the body adjacent its bottom. A faucet A<sup>4</sup> is secured in the body ad-

jacent its bottom so that the water can be readily drained out when desired.

The bifurcation in the partition forms an opening through which the water is adapted to circulate. A cleat B' is secured to the lower end of the partition and a cleat B<sup>2</sup> is secured to the opposite side of the body on which a bottom C is adapted to rest which is formed of slats so that the water can be circulated freely through the same. A spring D is secured to one of the sides of the body, adapted to engage the bottom and securely hold it in place.

A cover E is hinged to one of the sides, and on which is secured a U-shaped bracket F adjacent one edge, in the upper end of which is pivotally mounted one end of an arm G, in the center of which is secured a bolt G' on which is pivotally mounted plates H' secured to the side of a piston-rod H, which extends down into the body of the washer through an opening E' in the cover, to the end of which is secured a solid plunger I by braces I', which fits snugly in the body between the partition and sides and is provided with strips I<sup>2</sup> around its edges so as to form a tight joint.

A spring arm J is secured to one side of the arm G, the free end J' of which is bent back upon itself and provided with a pin J<sup>2</sup> working in a slot K' in the wall of the slotted portion of a pitman rod K, which is mounted on the arm G. The other wall of the slotted portion of the pitman rod is provided with a series of openings K<sup>2</sup> in which a pin G<sup>2</sup> secured in the arm G is adapted to fit and be held by the spring, so that the length of the stroke of the pitman rod can be adjusted to suit the quantity of clothes in the body.

Mounted on the cover E adjacent its hinged edge is a bracket L in which is mounted a shaft M provided with a crank-handle M' at one end, and a gear-wheel M<sup>2</sup> at the other end, which meshes with a gear-wheel N' carried by a shaft N on the other end of which is secured a disk O provided with openings in one of which a wrist-pin P is adapted to be secured on which is mounted the apertured end of the pitman rod K, so that when the cam is operated, the piston rod will be worked up and down.

An arm Q is pivotally mounted on one edge of the cover and extends down through a slot formed in the strip A<sup>3</sup>, having an angled end adapted to engage the strip and prevent the top from going too far back when raised, so



that the clothes can be placed therein. Secured to the top of the flange is an arm R which is adapted to fit in a slotted bracket S secured on the under side of the cover and support the plunger when the cover is swung back.

In Fig. 8 I have shown an operating lever T connected to the arm Q for operating the machine without the gearing.

10 The operation is as follows: The body is filled about half full of water, and the clothes to be washed are placed on the false bottom. The cover is then closed down over the body and the pitman rod adjusted to suit the amount of clothes arranged therein, the crank is then turned which will cause the plunger to pass down in the body causing the water to pass down through the clothes and up over the partition and as the plunger is brought up, 20 the water will be forced back over the partition and up through the clothes thereby forcing all the dirt out of the same.

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

30 1. In a washing machine, the combination with a pivoted arm carrying a plunger, of a spring arm secured to one side of said arm provided with a hooked end, a pin extending out from the other side of said pivoted arm, a

slotted pitman rod arranged over the pivoted arm and spring arm, one wall of the slot being provided with spaced openings adapted to receive said pin and means for operating said pitman rod.

35 2. In a washing machine, the combination with a swinging arm carrying a plunger, of a slotted pitman rod mounted on said arm provided with a series of openings in one of the walls, a pin secured in said arm and adapted to fit in one of said openings and a spring arm secured to one side of said arm for holding said pin in said opening, said spring arm being provided with a hooked end carrying a pin working in a slot formed in one of the walls of the slotted portion of the pitman-rod. 40 45

3. In a washing machine, the combination with a hinged cover, of a bracket secured on said cover, an arm mounted in said bracket, a plunger carried by said arm, a pin secured in said arm, a slotted pitman provided with a series of openings in its walls, adapted to fit over said pin, and a spring arm secured to said arm and provided with a pin adapted to work in a slot formed in one of the walls of the pitman rod, for the purpose described. 50 55

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