

No. 742,577.

PATENTED OCT. 27, 1903.

J. W. BROWN, JR.
MEAT SHAVING MACHINE.
APPLICATION FILED MAR. 26, 1898.

NO MODEL.

2 SHEETS—SHEET 1.

FIG. 1.

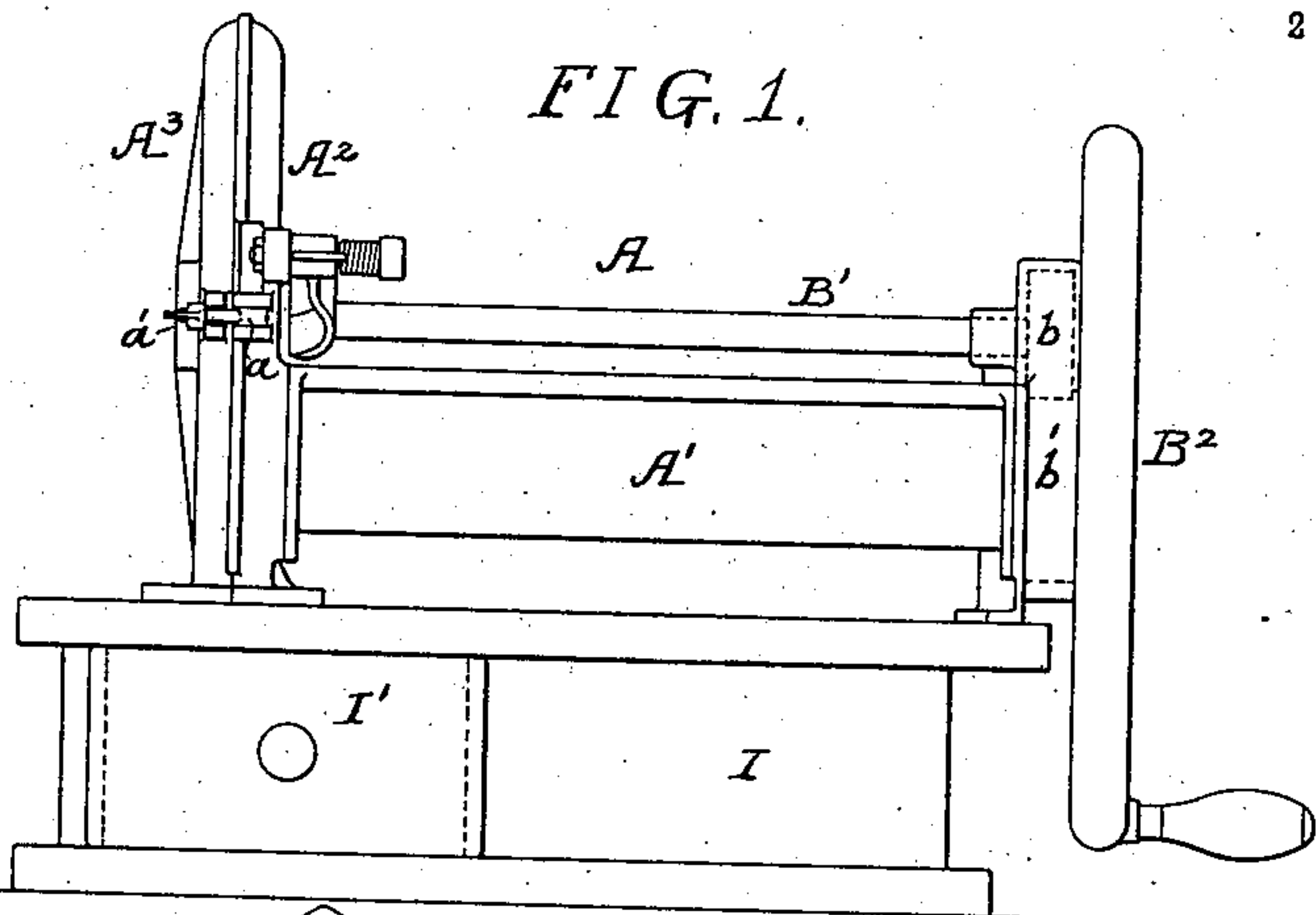


FIG. 7.

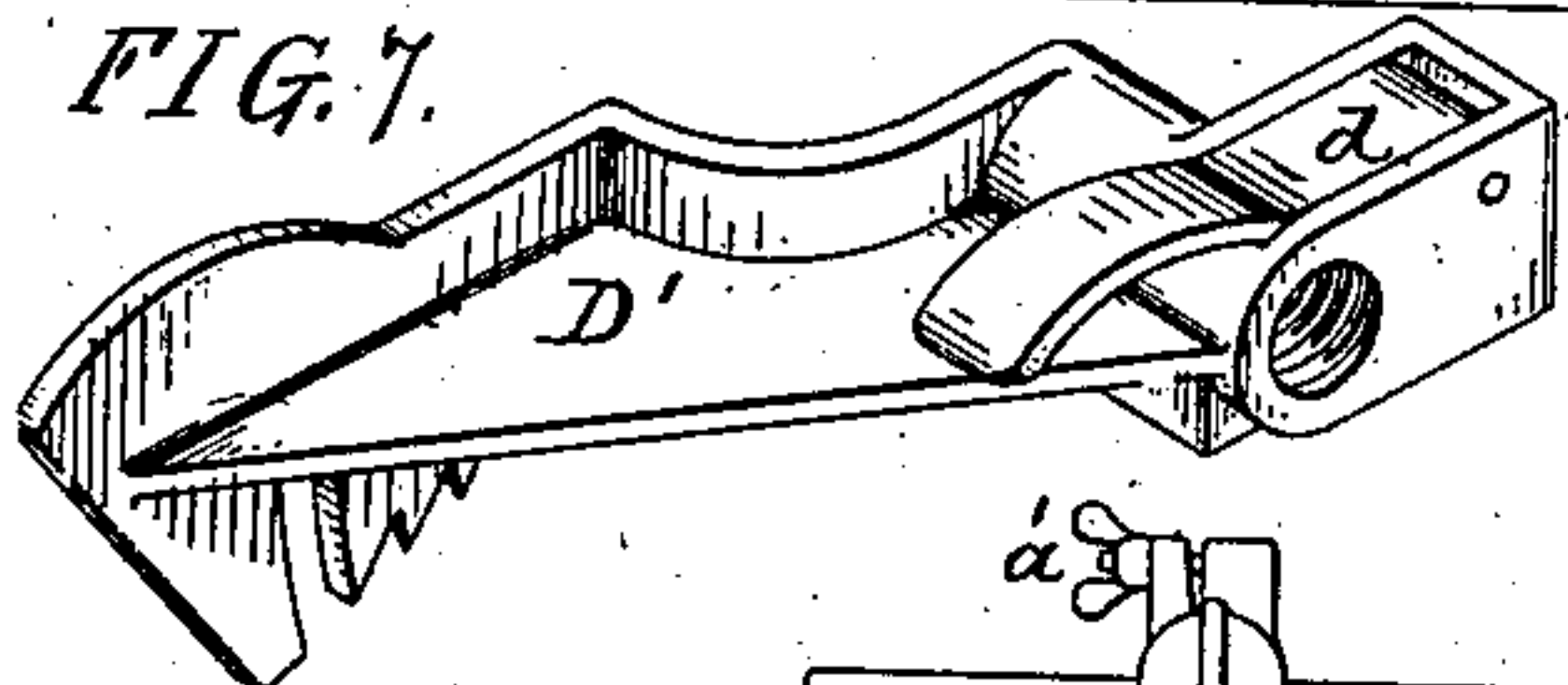


FIG. 2.

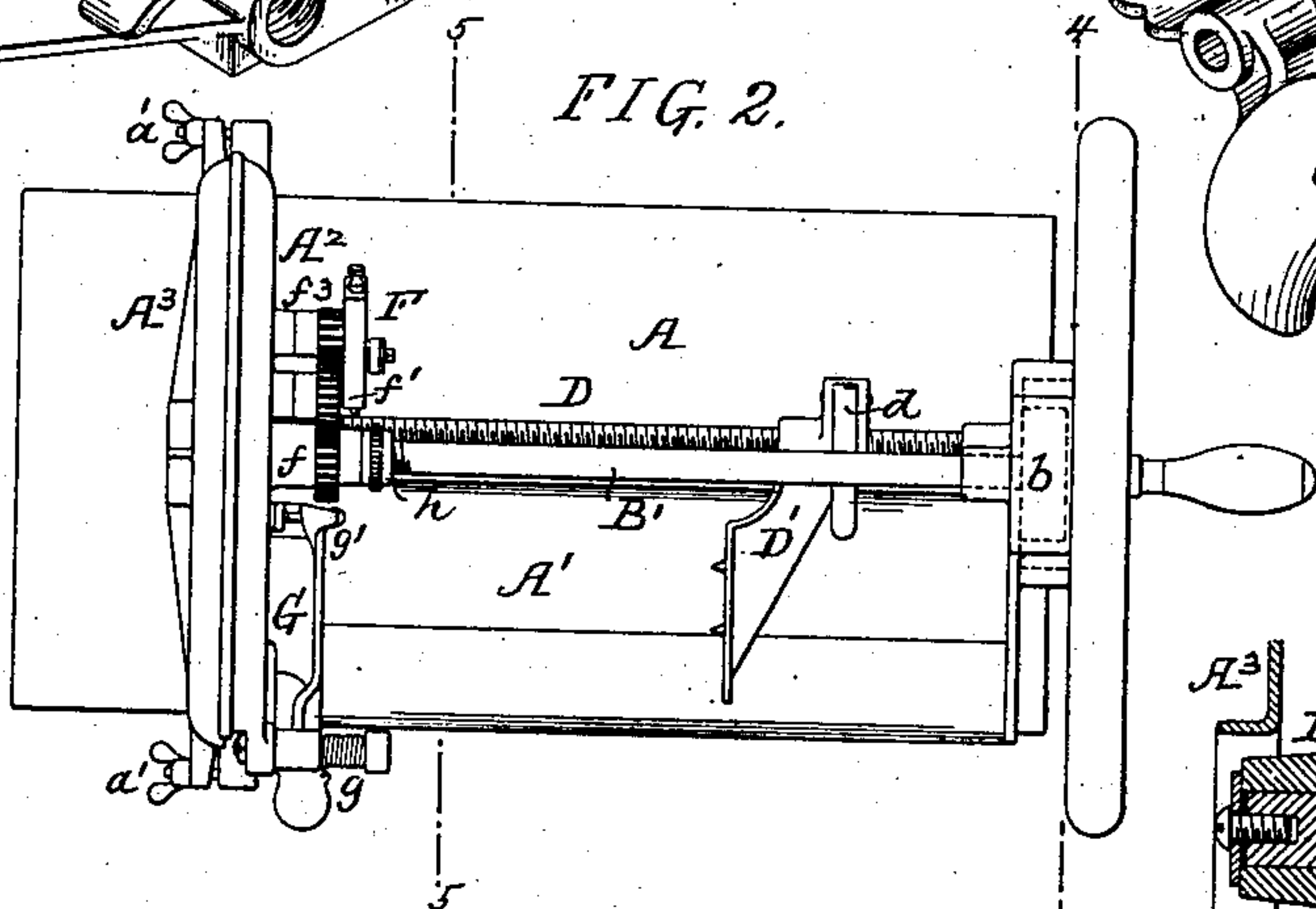


FIG. 6.

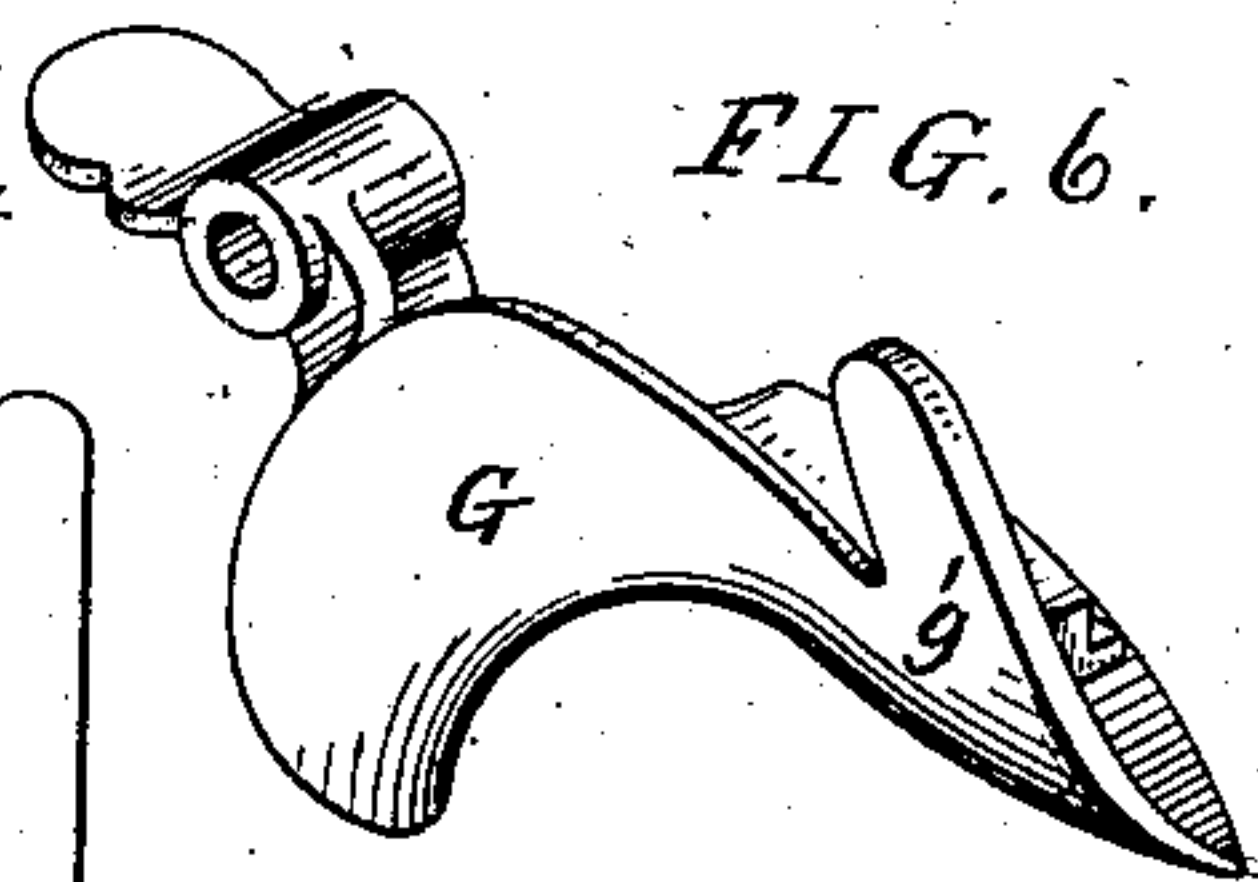


FIG. 8.

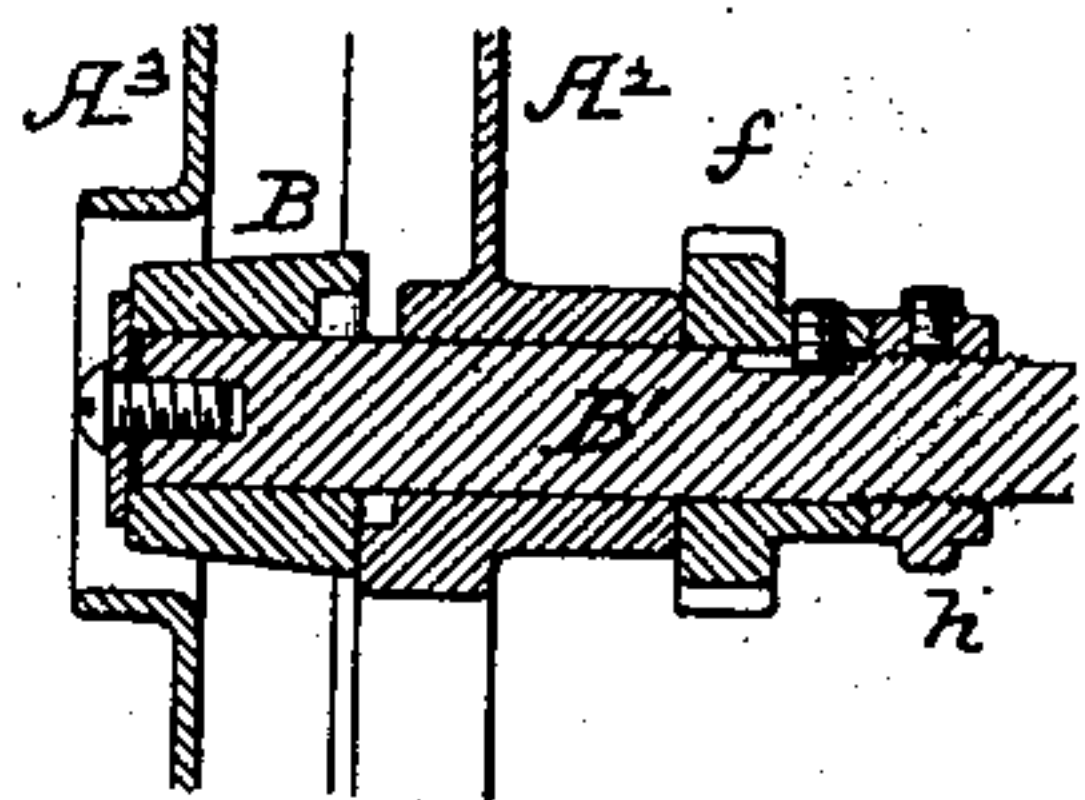


FIG. 3.

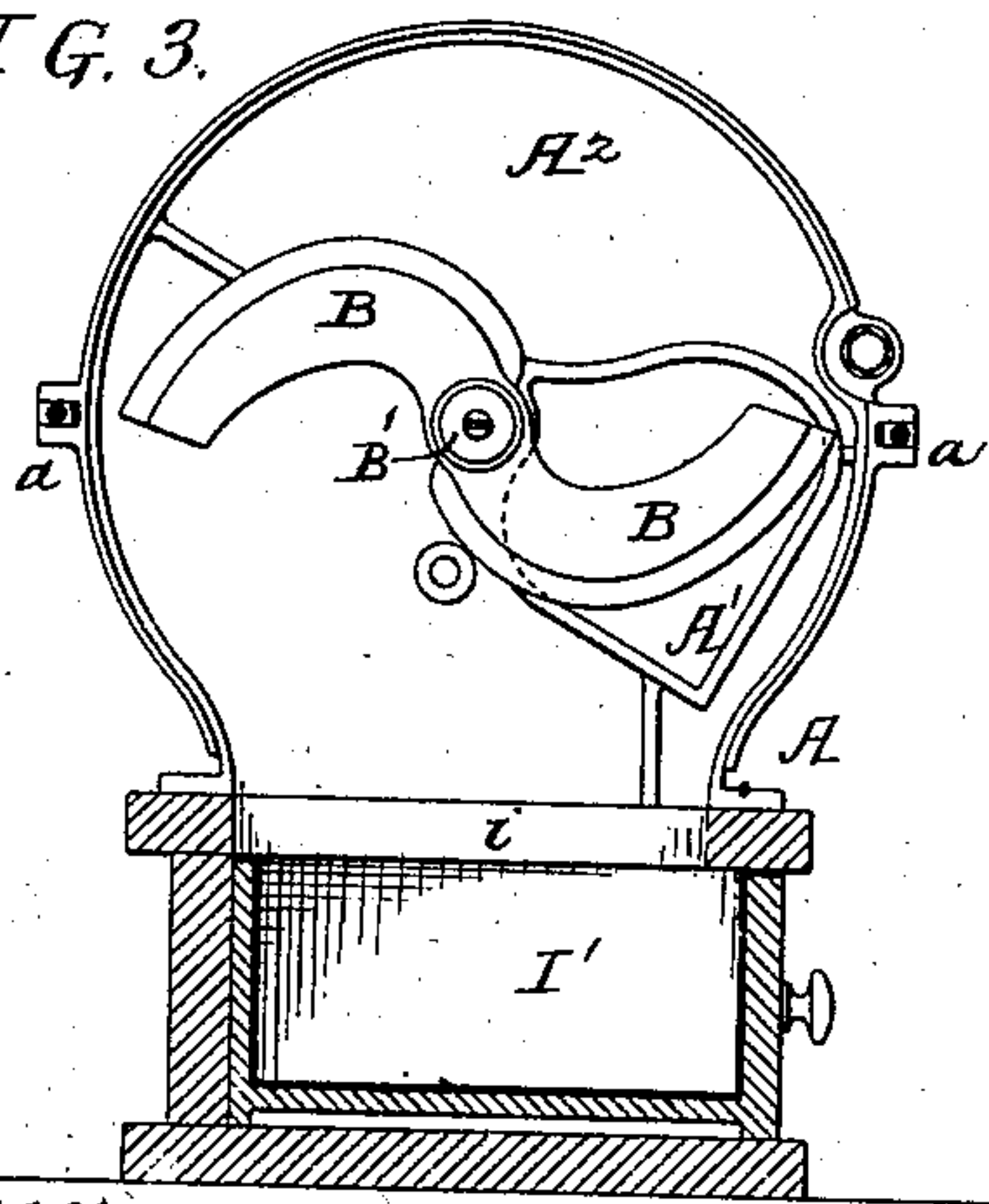
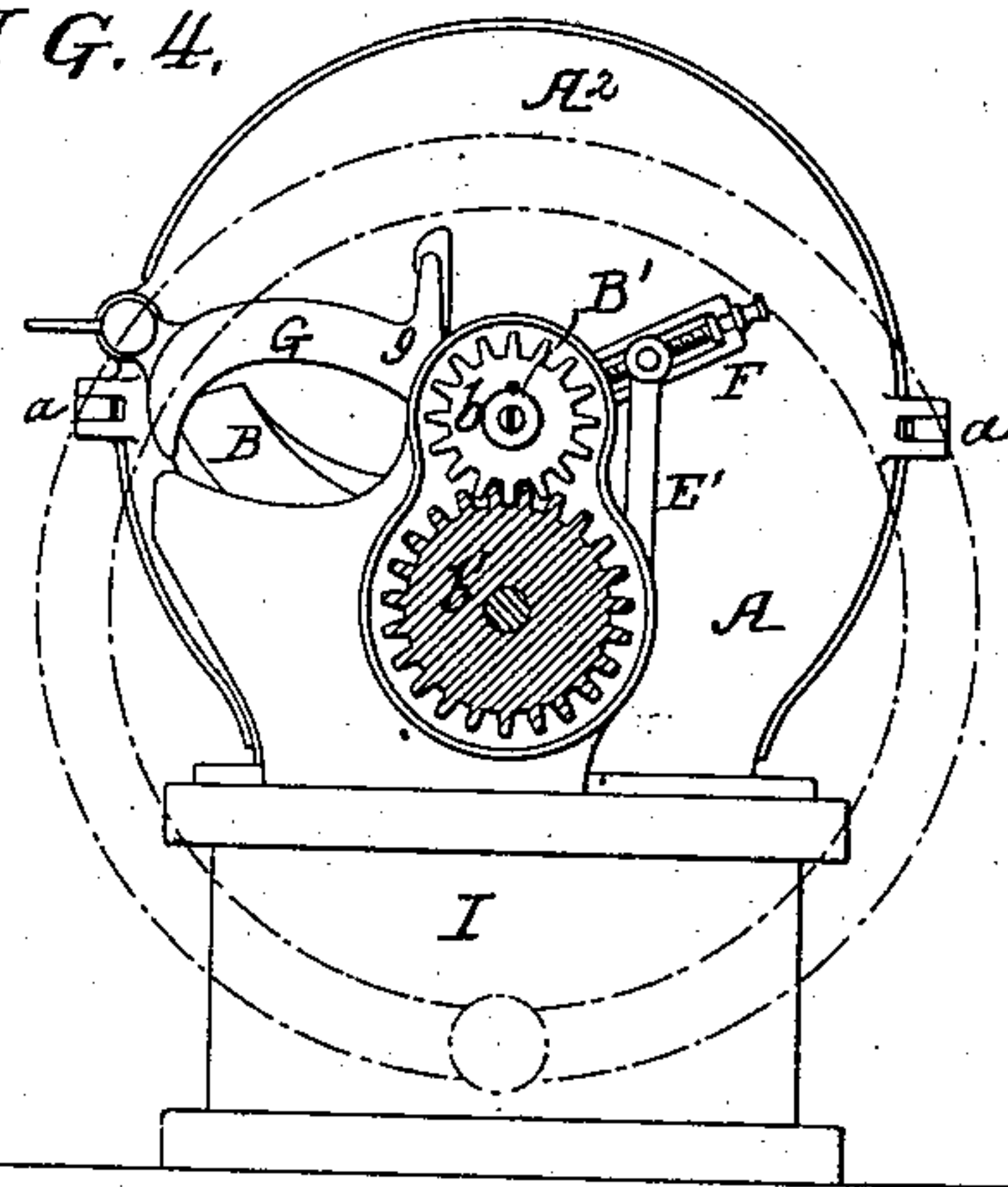


FIG. 4.



Witnesses:
Hamilton D. Turner
James C. Krager

Inventor:
John Wilson Brown Jr.
by his Attorneys.
Howson & Howson

No. 742,577.

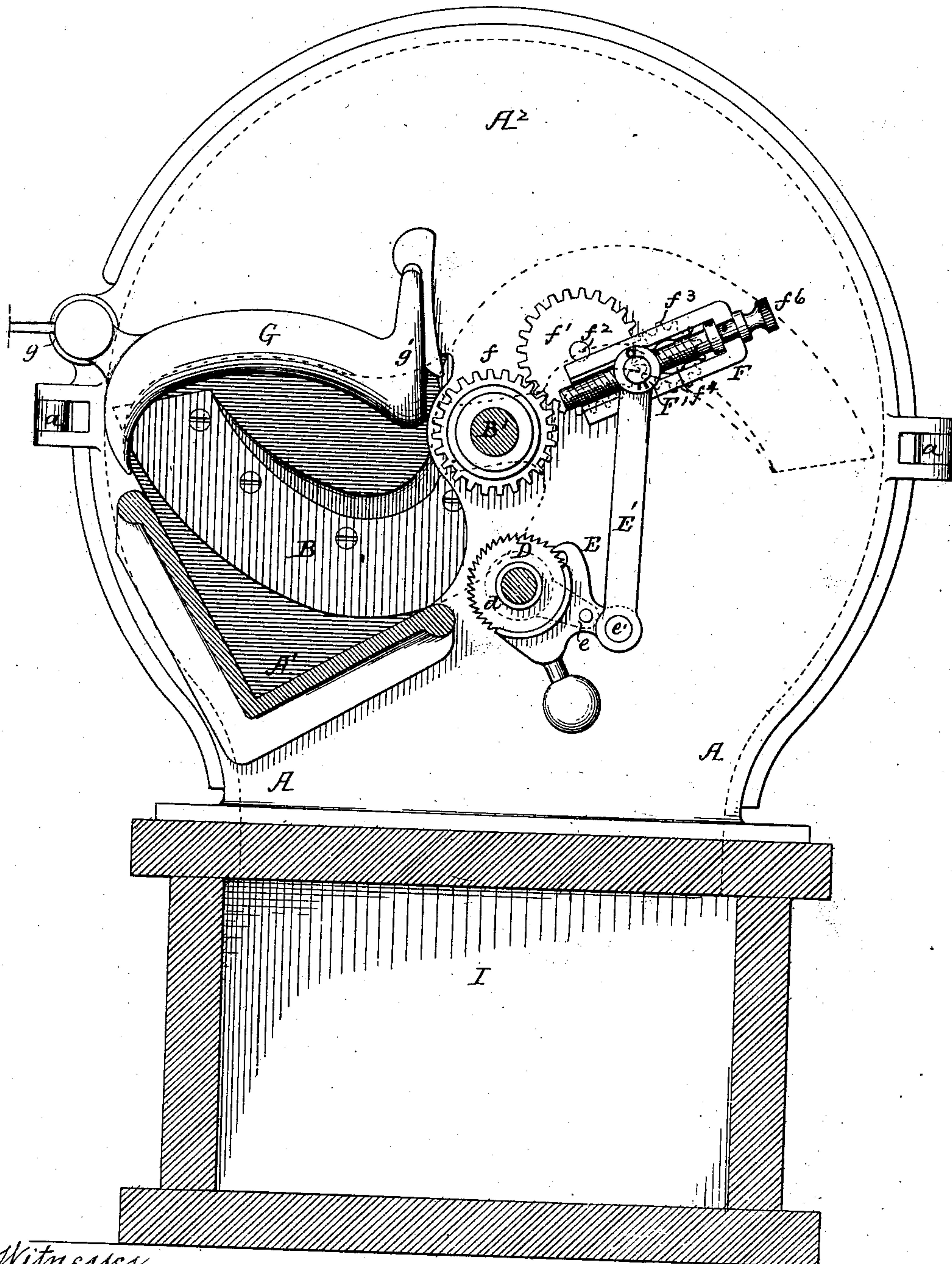
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2 SHEETS—SHEET 2.

FIG. 5.



Witnesses:

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UNITED STATES PATENT OFFICE.

JOHN WILSON BROWN, JR., OF PHILADELPHIA, PENNSYLVANIA.

MEAT-SHAVING MACHINE.

SPECIFICATION forming part of Letters Patent No. 742,577, dated October 27, 1903.

Application filed March 26, 1898. Serial No. 675,329. (No model.)

To all whom it may concern:

Be it known that I, JOHN WILSON BROWN, Jr., a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Meat-Shaving Machines, of which the following is a specification.

The object of my invention is to improve the construction of machines for shaving meat, such as dried beef.

By my improvement I construct a rotary machine having two knives and so operate the feeding mechanism as to feed between each cut, and I can regulate the feeding mechanism to produce shavings of different thicknesses.

In the accompanying drawings, Figure 1 is a side view of my improved machine. Fig. 2 is a plan view. Fig. 3 is an end view with the casing removed to show the blades. Fig. 4 is a transverse sectional view on the line 4 4, Fig. 2. Fig. 5 is an enlarged sectional view on the line 5 5, Fig. 2. Figs. 6 and 7 are detached perspective views showing details. Fig. 8 is a sectional view showing the means for adjusting the knife.

A is the frame having a V-shaped trough A', in which the meat to be shaved is placed. The frame extends up at one end, forming a casing A² for the rotating knife B, which is mounted on a shaft B', having its bearings in the frame.

A³ is a cap-plate which is secured to the casing by means of the swiveled bolts *a* and thumb-screws *a'*, so that the knife is entirely inclosed and protected.

The shaft B' extends throughout the length of the machine and has a pinion *b* at its rear end which meshes with a gear-wheel *b'* on the hub of a hand-wheel B², mounted on a stud projecting from the frame.

The knife B in the present instance has two arms curved, as shown, to which are secured the steel cutting-blades. These may be fastened to the arms in any suitable manner, and while I have shown two arms one arm may be used or three or more arms may be used, depending largely upon the size of the machine.

Running parallel with the shaft of the machine and the trough is a feed-screw D, and

mounted in the trough is a pusher D', preferably provided with prongs, which engage the meat to be shaved. This pusher is mounted on the screw-shaft and has a pivoted spring-dog *d*, which engages the threads of the screw-shaft, so that as the shaft is intermittently turned the pusher will be moved forward. The pusher can be released from the screw-shaft, however, by simply lifting the dog, and it can be moved forward or backward, as required, so as to place into the trough a fresh supply of meat or for other purposes. At the forward end of the screw-shaft D is a ratchet-wheel *d'*, Fig. 5, and pivoted to the screw-shaft is an arm *e*, carrying a weighted pawl E.

On the driving-shaft B' is a gear-wheel *f*, which meshes with an intermediate gear-wheel *f'* on a stud *f*². This intermediate gear-wheel meshes with a pinion *f*³, forming part of a crank F, which is mounted on a stud *f*⁴, secured to the frame A of the machine. This crank has a slot, and mounted in the slot is a movable block F', carrying the crank-pin *f*⁵, and adapted to a bearing in one end of the crank is a screw *f*⁶, which extends through the screw-threaded opening in the block and has at one end a head by which it can be turned, so as to move the block and its crank-pin toward or from the center of rotation. This crank-pin is connected to a pin *e'* on the pawl E by a rod E', so that as the crank F is turned it will vibrate the pawl and feed the screw-shaft forward a certain number of teeth, depending upon the adjustment of the block F' in the crank F. The construction is such that the feed takes place after one knife-blade has made a cut and before the other blade makes a second cut, thus insuring the proper feeding of the meat to the knife, and the mechanism does not feed while the knife is cutting, so that a clean cut is assured.

G is a pivoted pressing-lever having a spring *g*, which tends to hold the presser down upon the meat, so as to keep the meat firmly in place in the trough; but the presser is so formed as to not interfere with the feeding forward of the meat by the pusher and its screw. The presser G has a beveled portion *g'* at its back, against which strikes the pusher D' when it is fed close to the knife. The

pusher will force the presser up out of the path as it moves forward, so that all the meat in the trough can be cut.

I preferably mount the frame on a stand I, 5 having an opening *i*, Fig. 3, directly under the knife, through which the sliced meat passes into a drawer or other receptacle I'. It will be understood, however, that when this cutter is mounted on a counter—for instance, in a 10 store—the counter can be slotted and a suitable receptacle placed directly under the slotted portion of the counter. In some instances a belt-pulley may be secured to the driving-shaft and the cutters driven by power. 15 On the rotating shaft B' is a nut *h*, Fig. 8, adapted to a thread on the shaft and held in place by a set-screw. By turning this nut the knife-blade can be set to shear with the end of the trough, so as to make a clean cut.

I claim as my invention—

The combination in a machine for shaving 20 meat or other materials, of a frame having a trough for the reception of the meat, a knife mounted in front of the trough, means for operating the same, mechanism for feeding 25 the meat forward and a presser for holding the meat in the trough, said presser having a beveled portion, whereby the mechanism for feeding the meat will force the presser out of 30 its path, so that all the meat in the trough can be cut, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN WILSON BROWN, JR.

Witnesses:

WILL. A. BARR,
JOS. H. KLEIN.