

No. 667,029.

Patented Jan. 29, 1901.

C. P. MOSHER.
MEAT CUTTER.

(Application filed Mar. 15, 1899. Renewed Nov. 24, 1900.)

(No Model.)

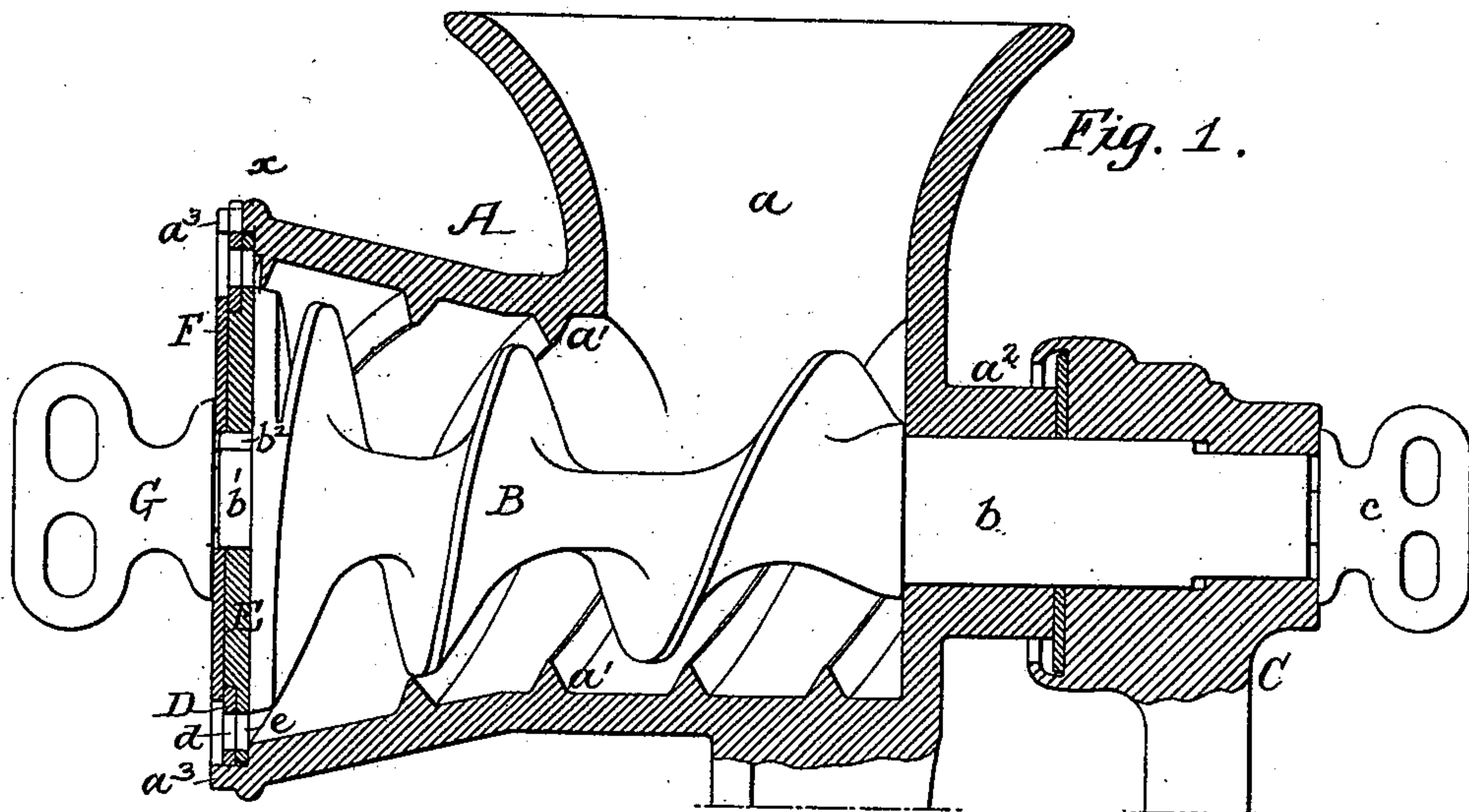


Fig. 2.

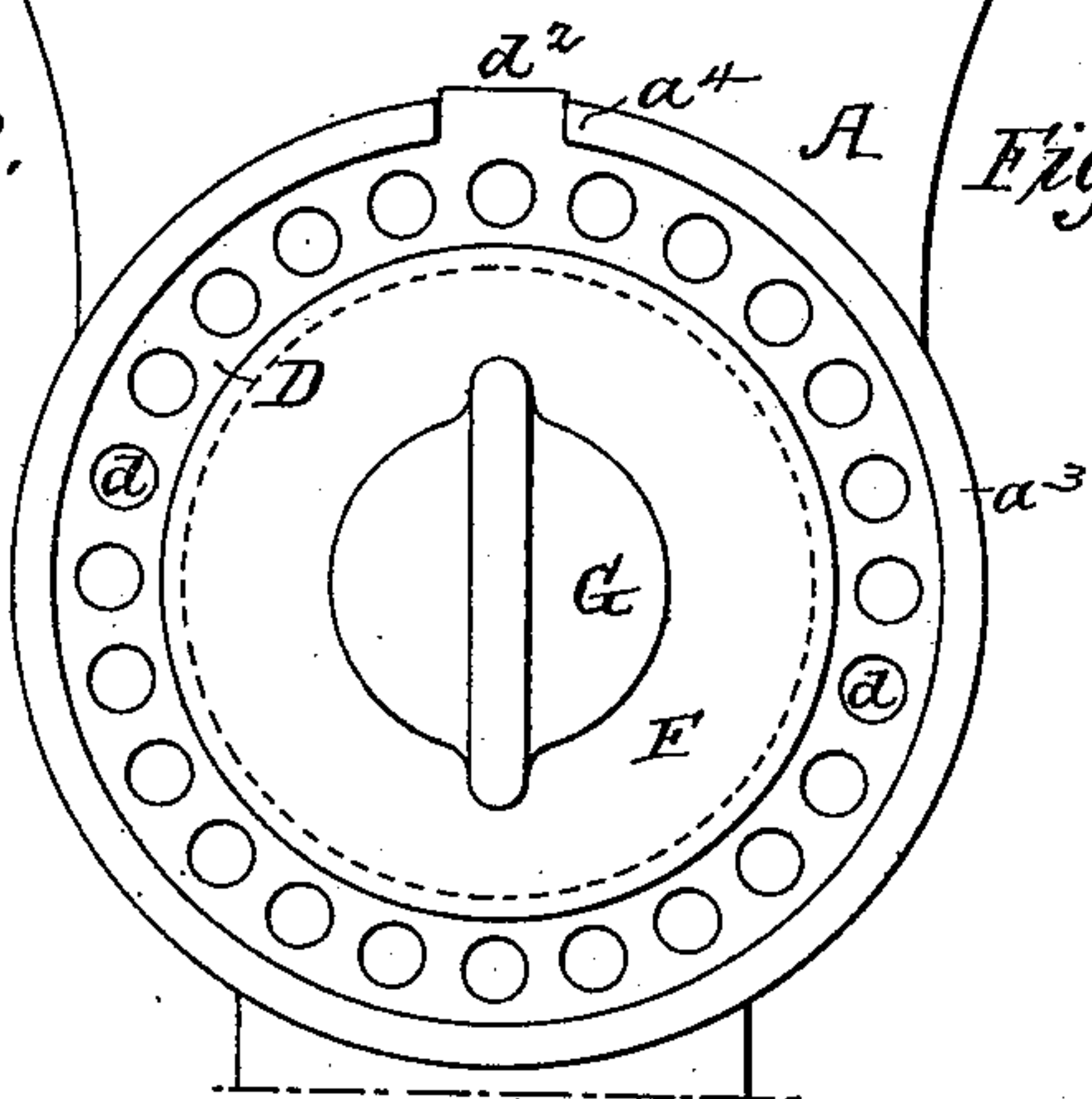


Fig. 7.

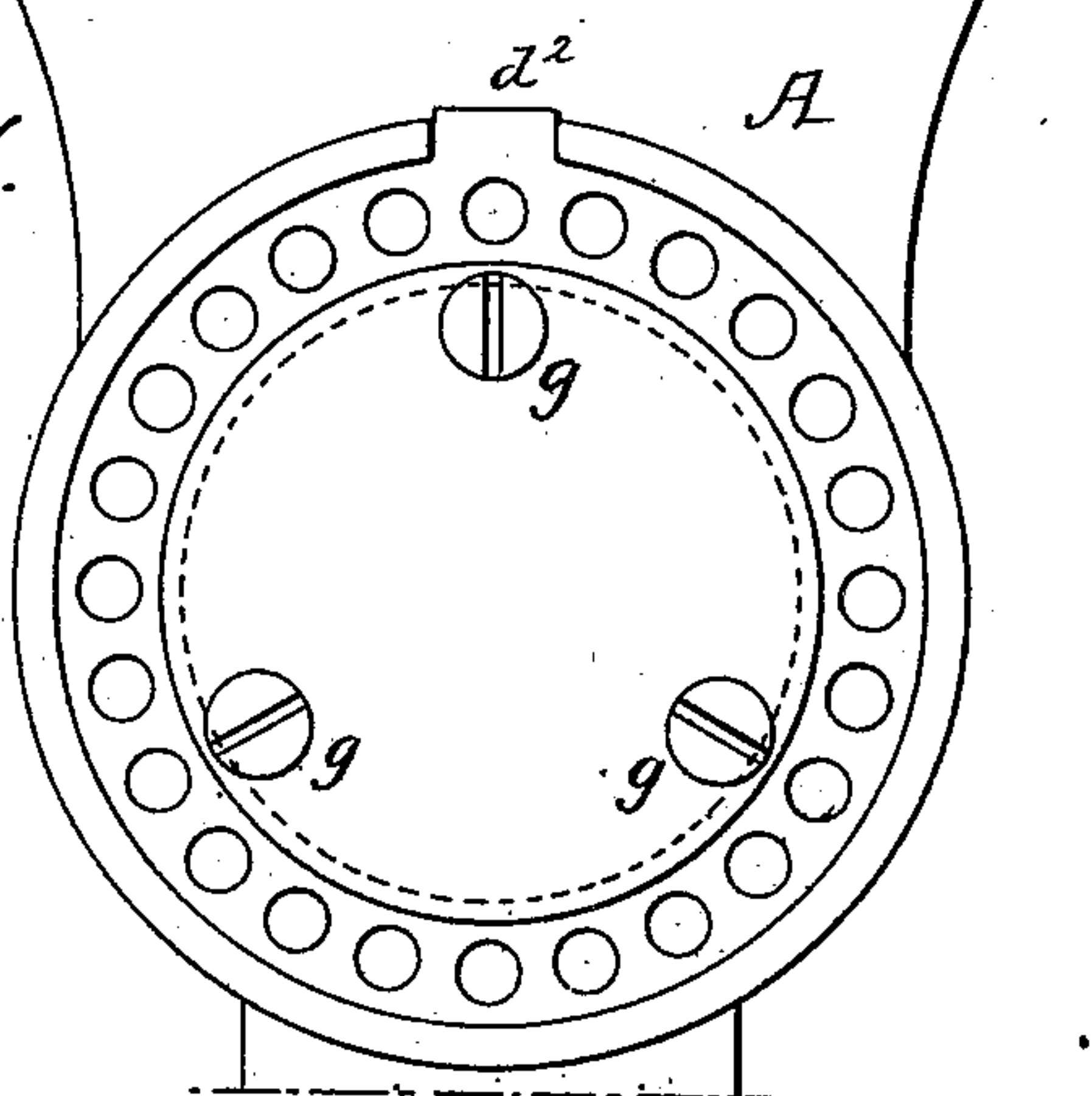


Fig. 6.

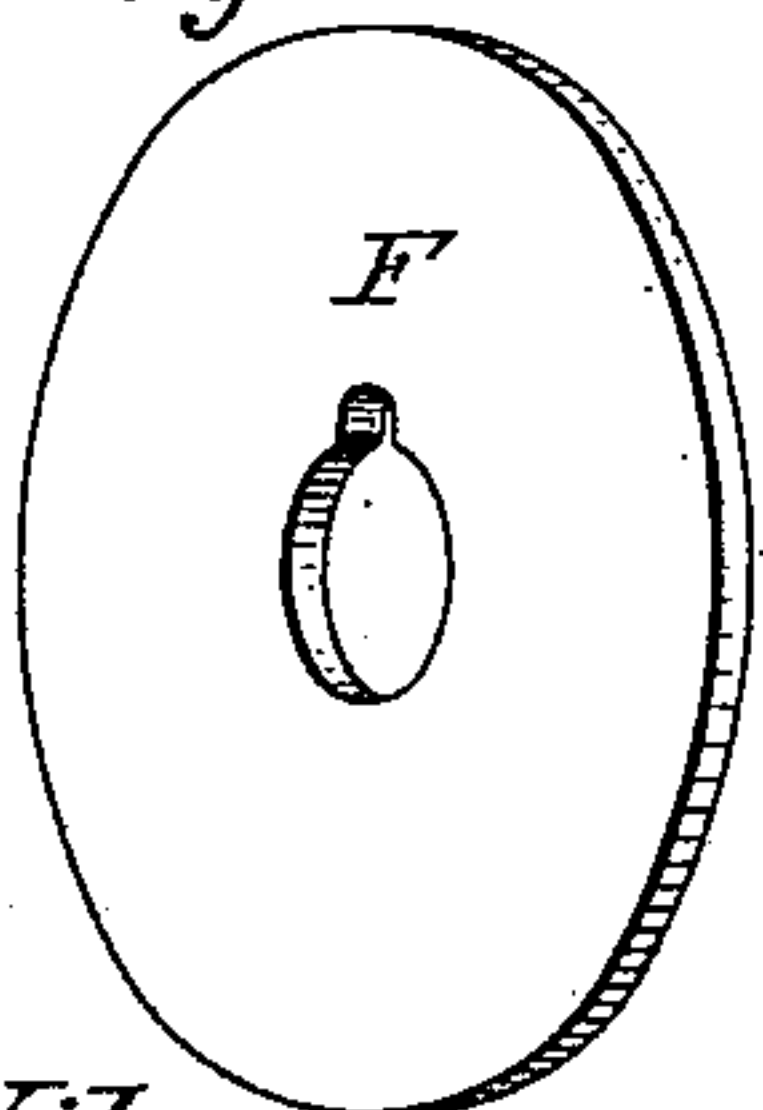


Fig. 5.

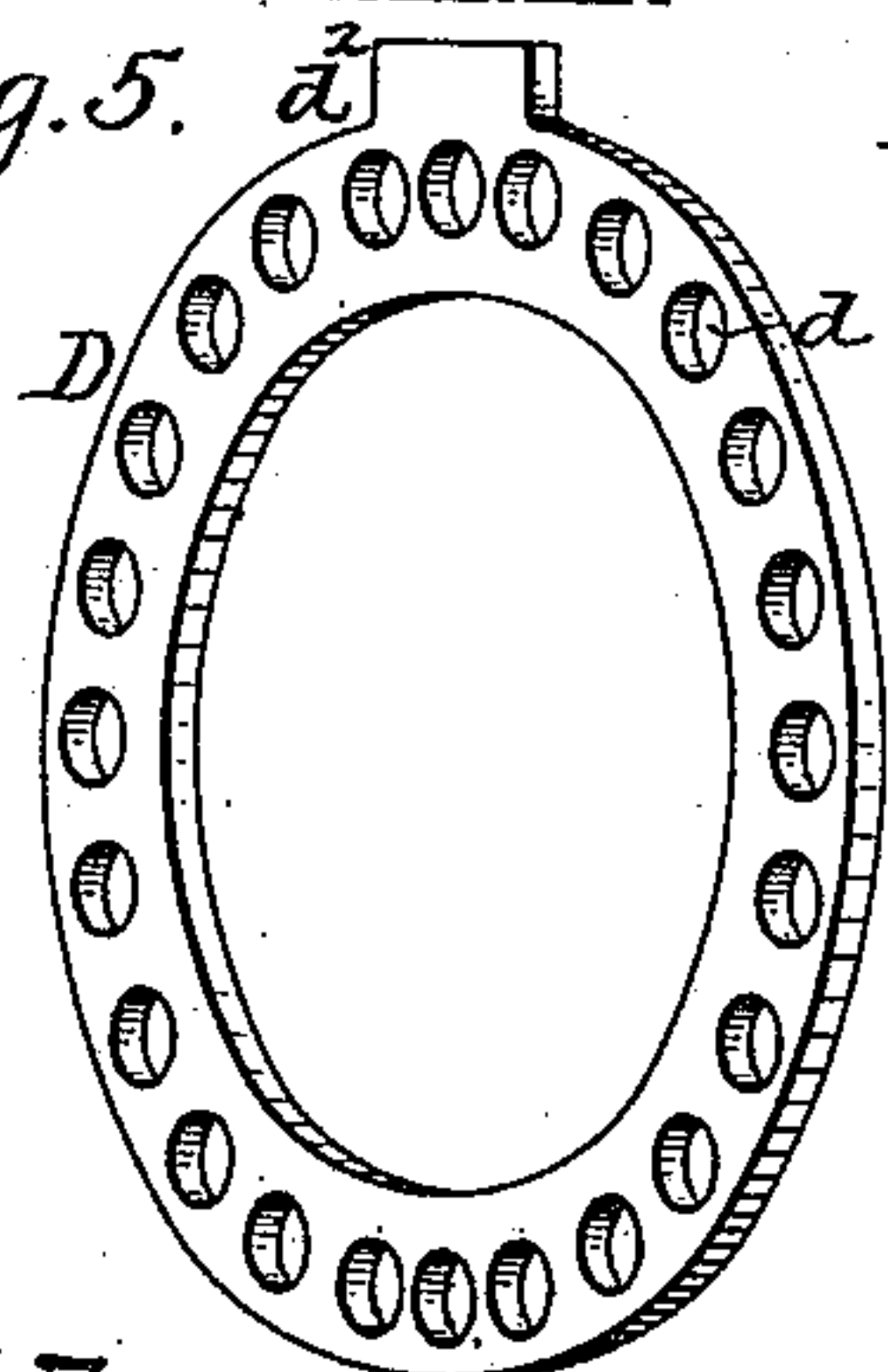


Fig. 4.

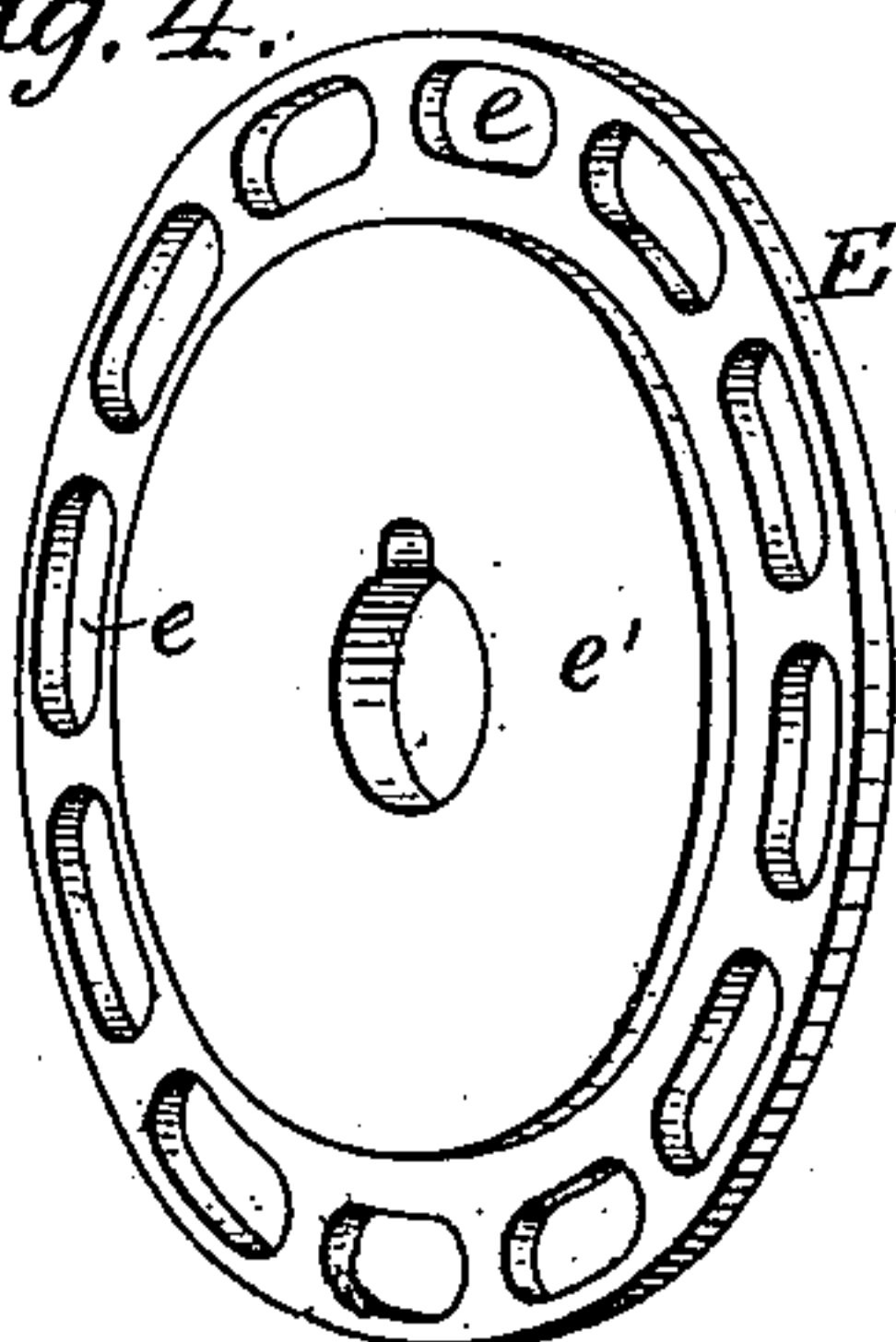
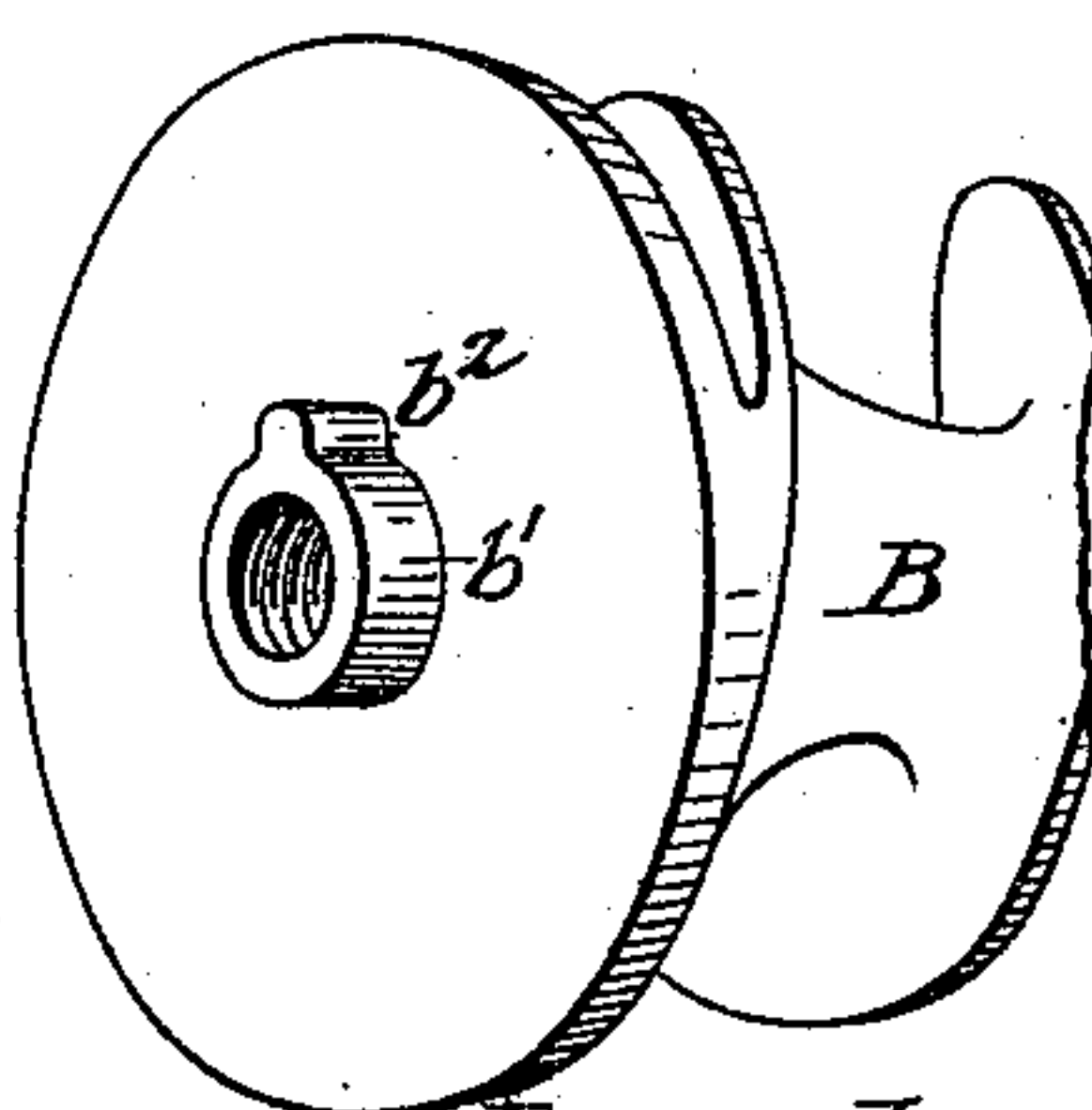


Fig. 3.



Witnesses:-

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UNITED STATES PATENT OFFICE.

CHARLES P. MOSHER, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO
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OF SAME PLACE.

MEAT-CUTTER.

SPECIFICATION forming part of Letters Patent No. 667,029, dated January 29, 1901.

Application filed March 15, 1899. Renewed November 24, 1900. Serial No. 37,678. (No model.)

To all whom it may concern:

Be it known that I, CHARLES P. MOSHER, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Food-Cutters, of which the following is a specification.

My invention relates to certain improvements in food-cutters in which the material is cut as it passes through a perforated plate.

10 The main object of my invention is to make a double cut as the material passes through the machine, using a revolving cutter mounted between two stationary cutters, as fully described hereinafter.

15 In the accompanying drawings, Figure 1 is a sectional view of my improved food-cutter. Fig. 2 is an end view. Fig. 3 is a perspective view showing a portion of the screw. Fig. 4 is a perspective view of the movable cutting-disk. Fig. 5 is a perspective view of the stationary cutting-ring. Fig. 6 is a perspective view of the retaining-washer, and Fig. 7 is a view showing a modification of the method of adjusting the cutters one in respect to the
25 other.

A is the casing, having a hopper a and internal spiral ribs a' . These spiral ribs extend to the end x of the casing and form cutters which act in conjunction with the revolving disk described hereinafter. The casing, as shown in the drawings, is gradually enlarged from the hopper toward the end.

30 Adapted to the casing is a feed-screw B, preferably of the form indicated in the drawings. This feed-screw has a journal b , adapted to a bearing a^2 at the rear of the casing, and secured to the journal by a thumb-screw c is a handle C. The screw feeds the material forward from the hopper to the end x of the casing.
40 the casing.

E is the movable cutting-disk, having in the present instance elongated perforations e near its periphery. This cutting-disk is mounted on the hub b' of the feed-screw, and
45 on this hub is a rib b^2 , resting in the recess in the disk, so that the cutting-disk must turn with the screw.

D is the fixed perforated cutting-ring, mounted on the hub e' of the disk E and
50 within the flange a^3 . This ring has a series

of perforations d , through which the material passes after being cut. The ring fits snugly within the flange a^3 of the casing and has a projection d^2 , adapted to a recess a^4 in the flange, so as to prevent the ring from turning, as the ring is a fixed cutter. 55

It will be noticed that the revolving cutting-disk is mounted between the ends of the ribs and the cutting-ring. Consequently there is a cutting action not only in connection with the ring, but also in connection with the ribs; but, as shown in the drawings, there are more openings in the cutting-ring than there are ribs, and consequently there will be more cutting by the disk and the ring together than there will by the disk and the ends of the ribs. 65

In order that the cutting disk and ring may be adjusted one in respect to the other and to the ribs, I mount a washer F on the hub b' of the screw B, and this washer has a groove in which the rib b^2 rests, so that the washer will turn with the screw. 70

G is a thumb-screw the threaded portion of which is adapted to a threaded opening in the end of the feed-screw, so that on turning the feed-screw the washer F will force the ring D tightly against the cutting-disk E and the cutting-disk against the end of the ribs. 75

In place of a central thumb-screw a series of independent screws g (shown in Fig. 7) may be used; but I prefer the construction shown in Fig. 2. 80

I claim as my invention—

1. The combination in a food-cutter, of a casing having internal ribs extending to the outer end thereof, a feed-screw mounted within the casing, a disk secured to the outer end of the feed-screw and having a series of perforations near its periphery and resting in cutting contact with the end of the ribs of the casing, an external ring also having perforations in line with the perforations of the disk, means for preventing the ring from turning, and means for keeping the ring in cutting contact with the disk, substantially as described. 85 90 95

2. The combination in a food-cutter, of a casing having internal ribs and having a flange at the outer end thereof, a feed-screw 100

- mounted within the casing, a cutting-disk secured to the feed-screw within the flange and having a hub, perforations in the disk beyond the hub, a fixed perforated cutting-ring mounted within the flange and upon the hub of the cutting-disk, and means for keeping the ring in cutting contact with the disk and the disk with the ribs of the casing, substantially as described.
3. The combination in a food-cutter, of a casing having internal ribs, a feed-screw mounted within the casing, a cutting-disk secured to the feed-screw, said disk having a series of openings near its periphery and in cutting contact with the ends of the ribs of the casing, an external ring secured to the casing, said ring having perforations near its periphery, and means for retaining the ring and disk in cutting contact, the ring having more perforations than there are ribs in the casing, substantially as described.

4. The combination of a casing having spiral ribs, and a feed-screw adapted to said casing, a hub on the feed-screw, a disk carried by said hub and detachably secured thereto, said disk having a series of perforations near its periphery, a cutting-ring having perforations alining with the perforations of the disk, said cutting-ring mounted on a hub on the disk and having a projection engaging the casing, whereby it is held from turning, a washer, and means for setting up said washer so as to adjust the disk and ring in proper cutting position, substantially as described.

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

CHARLES P. MOSHER.

Witnesses:

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