

J. N. RIGGS.
SOAP SHAVING OR GRANULATING DEVICE.
APPLICATION FILED JUNE 30, 1909.

950,959.

Patented Mar. 1, 1910.

Fig. 1.

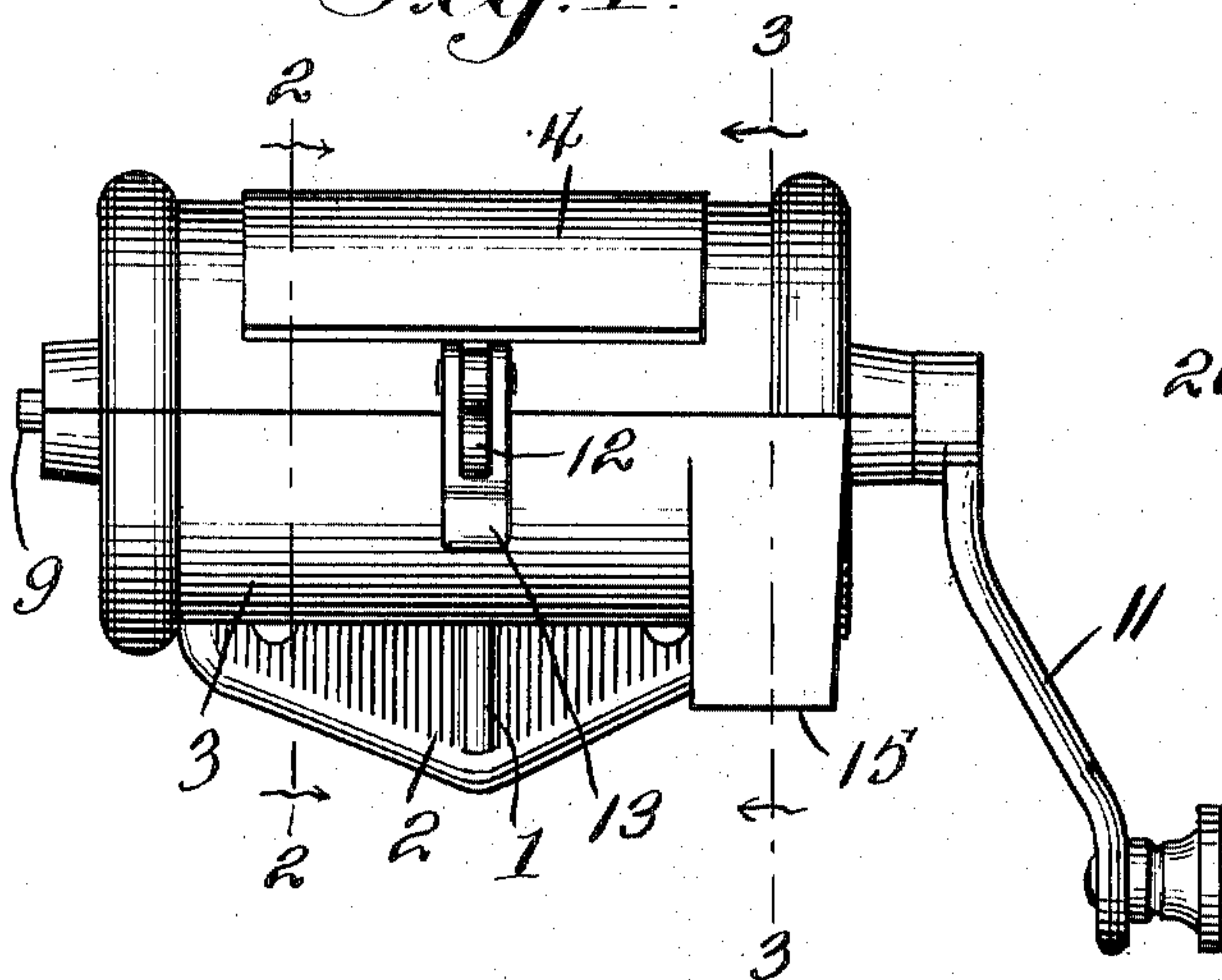


Fig. 2.

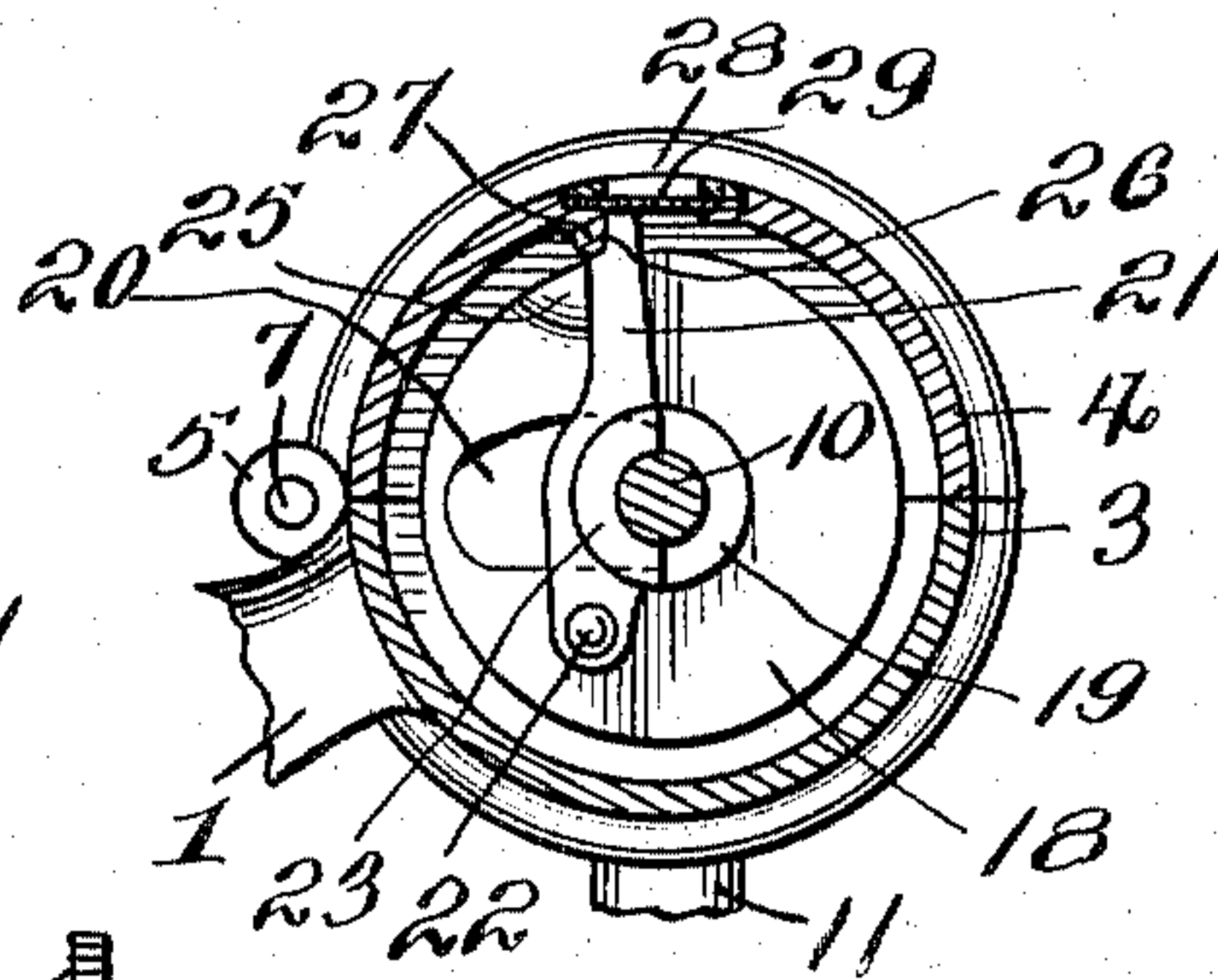


Fig. 3.

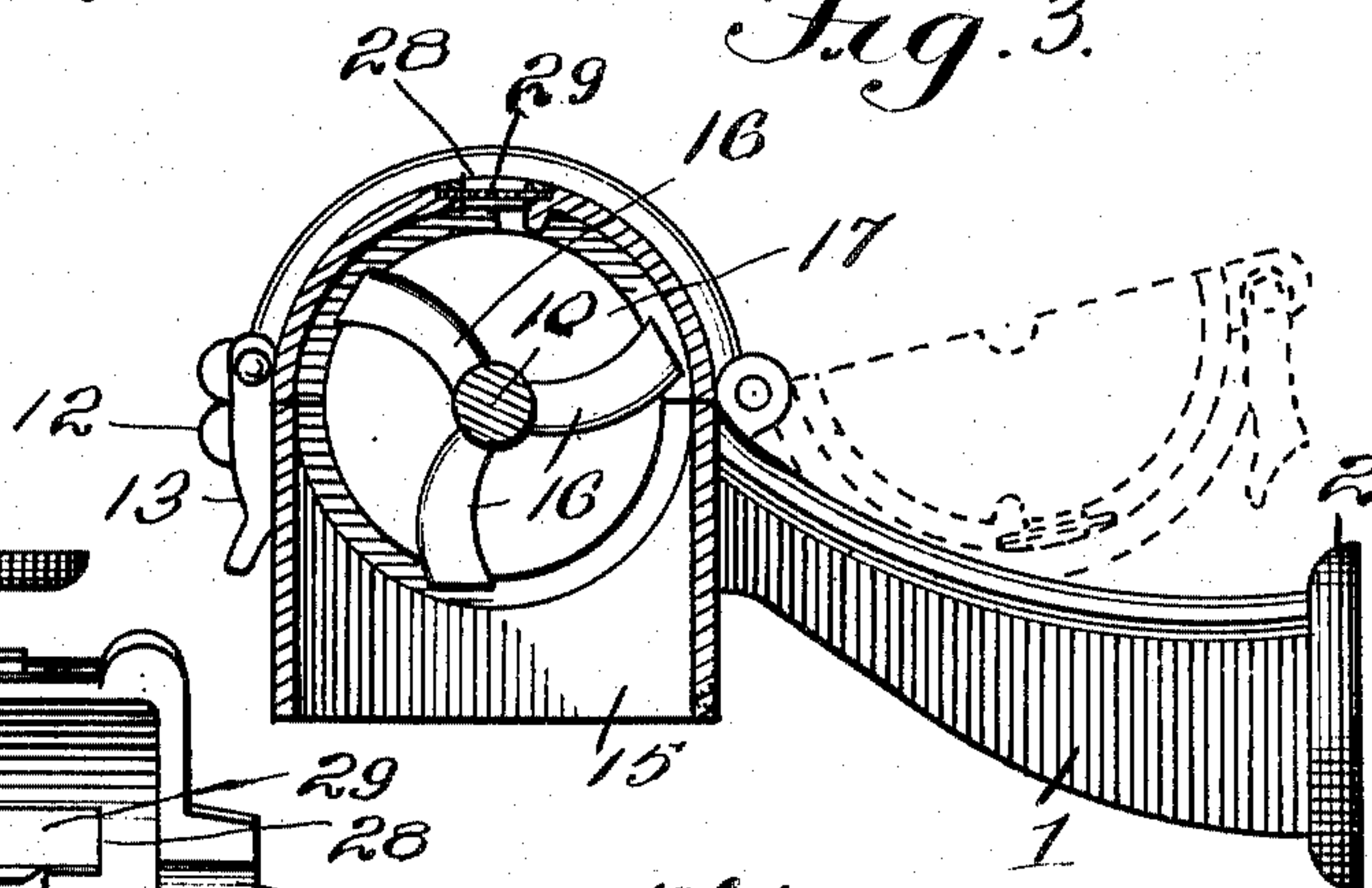


Fig. 4.

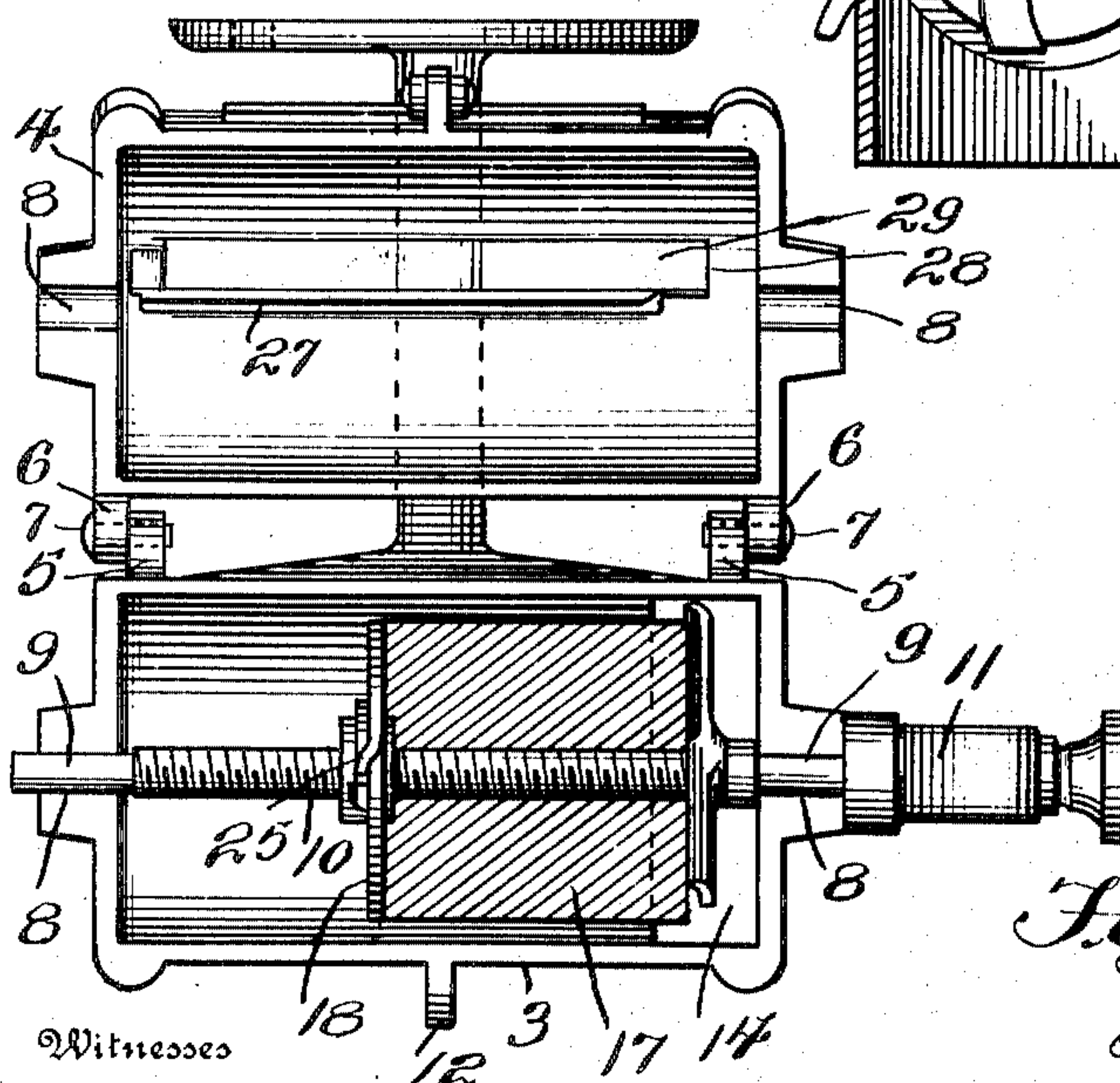


Fig. 5.

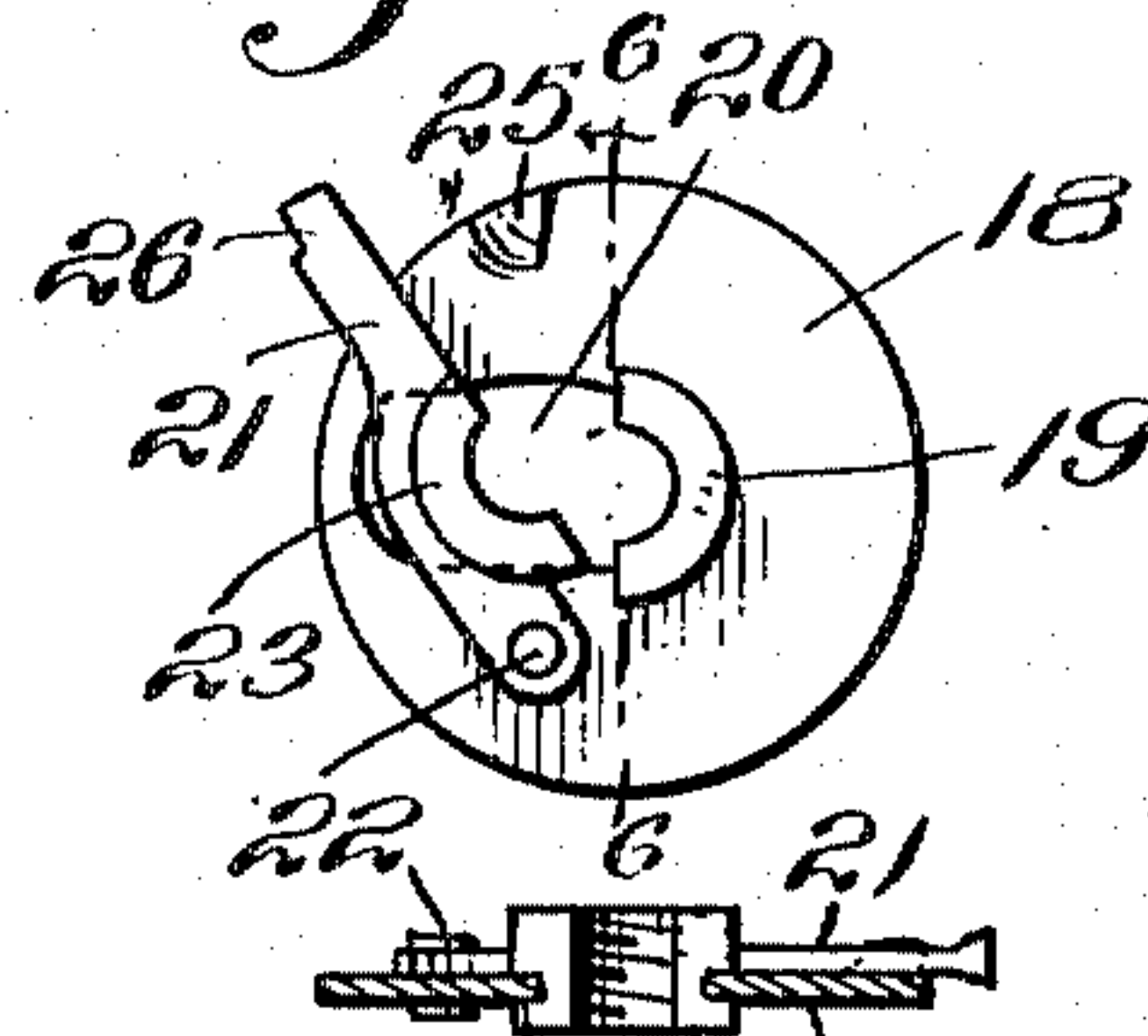


Fig. 6.

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UNITED STATES PATENT OFFICE.

JOSHUA N. RIGGS, OF SOUTH BEND, INDIANA.

SOAP SHAVING OR GRANULATING DEVICE.

950,959.

Specification of Letters Patent.

Patented Mar. 1, 1910.

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To all whom it may concern:

Be it known that I, JOSHUA N. RIGGS, a citizen of the United States, residing at South Bend, in the county of St. Joseph and State of Indiana, have invented new and useful Improvements in Soap Shaving or Granulating Devices, of which the following is a specification.

This invention relates to a soap shaving or granulating device for the purpose of shaving or granulating a sufficient amount of soap from a body or cake of soap for single consumption, the object of the invention being to provide a simple and inexpensive construction of device of this character which is efficient in operation in shaving or granulating the soap and feeding up the same as used to the shaving or granulating knife, and which admits of the convenient application of a new cake.

The invention consists of the features of construction, combination and arrangement of parts hereinafter fully described and claimed, reference being had to the accompanying drawing, in which:—

Figure 1 is a front elevation of a soap shaving or granulating device embodying my invention. Figs. 2 and 3 are cross sections on the lines 2—2 and 3—3 of Fig. 1, Fig. 3 indicating in dotted lines the top or cover of the casing thrown back to open position. Fig. 4 is a top plan of the opened casing. Fig. 5 is an outer face view of the follower. Fig. 6 is a sectional view of the same.

Referring to the drawing, the numeral 1 designates a bracket arm having a base 2 adapted for the passage of suitable fastenings to secure the device to a wall or support above or in proper proximity to a lavatory bowl or other similar appliance in connection with which the device is intended to be used.

Fixed to the outer end of the arm 1 is a semi-circular casing 3 adapted to be closed by a correspondingly shaped top section or cover 4. These sections are provided at their rear edges respectively with perforated lugs 5 and 6 pivotally united by pins or bolts 7 adapting the cover to be swung to closed position, as shown in full lines in

Figs. 1, 2 and 3 or rearwardly to an open position as shown in dotted lines in Fig. 4.

The meeting edges of the end walls of the casing and cover are provided with open bearings 8 to receive journals 9 upon the ends of a screw shaft 10, to one of which journals is connected an operating crank 11 by which the shaft may be rotated. The shaft is confined in position by the cover when the latter is closed and may be removed for the application of a new cake of soap when the cover is opened. For the purpose of holding the cover closed I have shown the casing formed in the present instance with a lug 12 adapted to be engaged by a slotted clasp 13 pivoted to the cover, but any other suitable type of fastening may be employed.

The casing 3 is provided at one end with a transverse slot 14 communicating with a chute or discharge spout 15 through which the shaved or granulated soap discharges by gravity. Fixed to one end of the shaft above said slot is a shaving or granulating knife consisting of a series of blades 16, which may be of a form suitable for either a shaving or a granulating action on the adjacent end of the soap cake 17. The cake 17 is preferably of circular form and provided with a longitudinal opening for the passage of the shaft 10 and to permit it to be slipped endwise upon the shaft from the end opposite the knife and crank handle. The soap is adapted to be held from rearward movement and to be fed gradually toward the knife by a follower 18 consisting of a disk having a semi-circular hub portion 19 internally screw threaded to engage the shaft, and provided with a radial slot 20 extending from said hub portion outwardly and terminating short of the periphery of the disk. A latch arm or lever 21 is pivoted at one end to the outer face of the disk, as shown at 22, and extends transversely of the slot 20 and is provided intermediate of its length with a complementary hub portion 23 similar in form to the hub portion 19 and also provided on its concaved face with threads to engage the shaft. This hub portion 23 projects through the slot 20 and is provided with an annular groove 24 receiving and en-

gaging the side walls of said slot, whereby said hub portion is retained in position upon the disk and guided in its movements in a true path. When the lever is swung outward to remove the hub portion 23 away from the hub portion 19 the follower disk will be released from engagement with the threads of the shaft and may be slipped off the same to permit a cake of soap to be applied. By then swinging the latch lever in the reverse direction, the hub portion 23 will be moved toward the hub portion 19 so that said portions will be closed about the shaft and their threads will engage the threads of the shaft to adapt the follower to be fed longitudinally along the shaft to advance the soap toward the knife 16. In order to hold the latch lever in hub engaging position, the disk is provided with an offset or locking shoulder 25 into and out of engagement with which the free end of the lever, which projects beyond the disk to form a manipulating portion, may be sprung by relative lateral movement. By this construction it will be understood that the two hub portions 19 and 23 form a sectional nut for mounting the follower upon the feed screw or shaft for movement to feed the cake of soap toward the shaving or granulating knife.

In order to secure a feed movement of the follower it will be understood that the same must be held from rotary movement so that the threads of the shaft will feed the same forward toward the knife 16 when the shaft is revolved by the action of the crank 11. For this purpose the outer end of the latch lever 21 is formed with a notch 26 to engage a retaining rib 27 formed longitudinally upon the inner face of the body of the cover 4. This retaining rib may be arranged along one of the marginal edges of an observation slot 28 formed in the cover and closed by a transparent panel 29, through which the interior of the casing may be viewed to determine the amount of soap remaining therein at any time without the necessity of opening the casing.

In priming the device for use, the follower is removed from the shaft after the latter is disconnected from the casing, and a cake of soap 17 slipped upon the shaft from the end opposite the crank 19 until the forward end of the cake is in contact with the edges of the blades 16 and above the discharge slot 14. The follower is then applied in position and the cover 4 closed. Upon then rotating the crank handle 11 to the right, the follower will revolve with the shaft until the notched end of the lever 21 engages the retaining rib 27, as shown in Fig. 2, when the follower will be held from rotary movement. The rotation of the shaft

will thereupon cause the follower to feed forward through the engagement of the threads of the shaft and follower to an extent commensurate with the amount of soap removed by the shaving or granulating blades. A sufficient amount of soap, in the form of shavings or granules, for a single consumption may thus be easily and conveniently cut from the cake and discharged through the slot 14 and chute 15 into the hand or a suitable receptacle disposed below said chute.

I claim:—

1. A soap shaving or granulating device comprising a casing having an outlet, a screw shaft journaled in the casing and provided with a cutting device in line with the outlet, means for rotating the shaft, a follower upon the shaft having a slot and a fixed nut section, a lever pivoted to the follower and carrying a complementary nut section having a guided connection with the slot, means for securing said lever in nut closing position, and means upon the casing to engage the lever and hold the follower from rotation when the shaft is revolved to feed said follower along said shaft.

2. A soap shaving or granulating device comprising a casing having an outlet, a screw shaft journaled therein and provided with a cutting device arranged in line with said outlet, means for rotating the shaft, a follower upon the shaft provided with a nut section, a pivoted lever upon the followers provided with a complementary nut section, means for holding said lever in nut closing position, to maintain the nut sections in engagement with the threads of the shaft, and means upon the casing to engage said lever to hold the follower from rotation and adapt it to be fed forward by the threads of the shaft upon the rotation of the latter.

3. A soap shaving or granulating device comprising a casing having an outlet, a screw shaft journaled in the casing and carrying a cutting device arranged in line with the outlet, means for rotating said shaft, a follower mounted upon the shaft and carrying a nut section, a lever pivotally mounted upon the follower and carrying a complementary nut section, locking means for holding the lever in nut closing position, and a retaining rib upon the casing adapted to engage the lever to hold the follower from rotation and to adapt the same to be fed longitudinally along the shaft by the threads thereof as said shaft is revolved.

4. A soap shaving or granulating device comprising a semi-circular casing having an outlet at one end thereof, a semi-circular cover for closing the casing, said casing and cover being provided in their meeting edges with bearing recesses, a screw shaft

having journals to engage said bearing recesses and provided at one end with an actuating crank, a cutting device upon the shaft in line with the discharge outlet, a follower
5 upon the shaft provided with a hub section, a pivoted member upon the follower provided with a coacting nut section, means for securing the lever in position to hold the nut section closed about the shaft, and a longitudinal retaining rib on the cover adapted to
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engage the member to hold the follower from rotation and adapted to be fed forward by the screws of the shaft as the latter is revolved.

In testimony whereof I affix my signature 15
in presence of two witnesses.

JOSHUA N. RIGGS.

Witnesses:

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F. BEDNAROWICZ.