

G. BOUTHINON.
MATCH SERVER.
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929,823.

Patented Aug. 3, 1909.

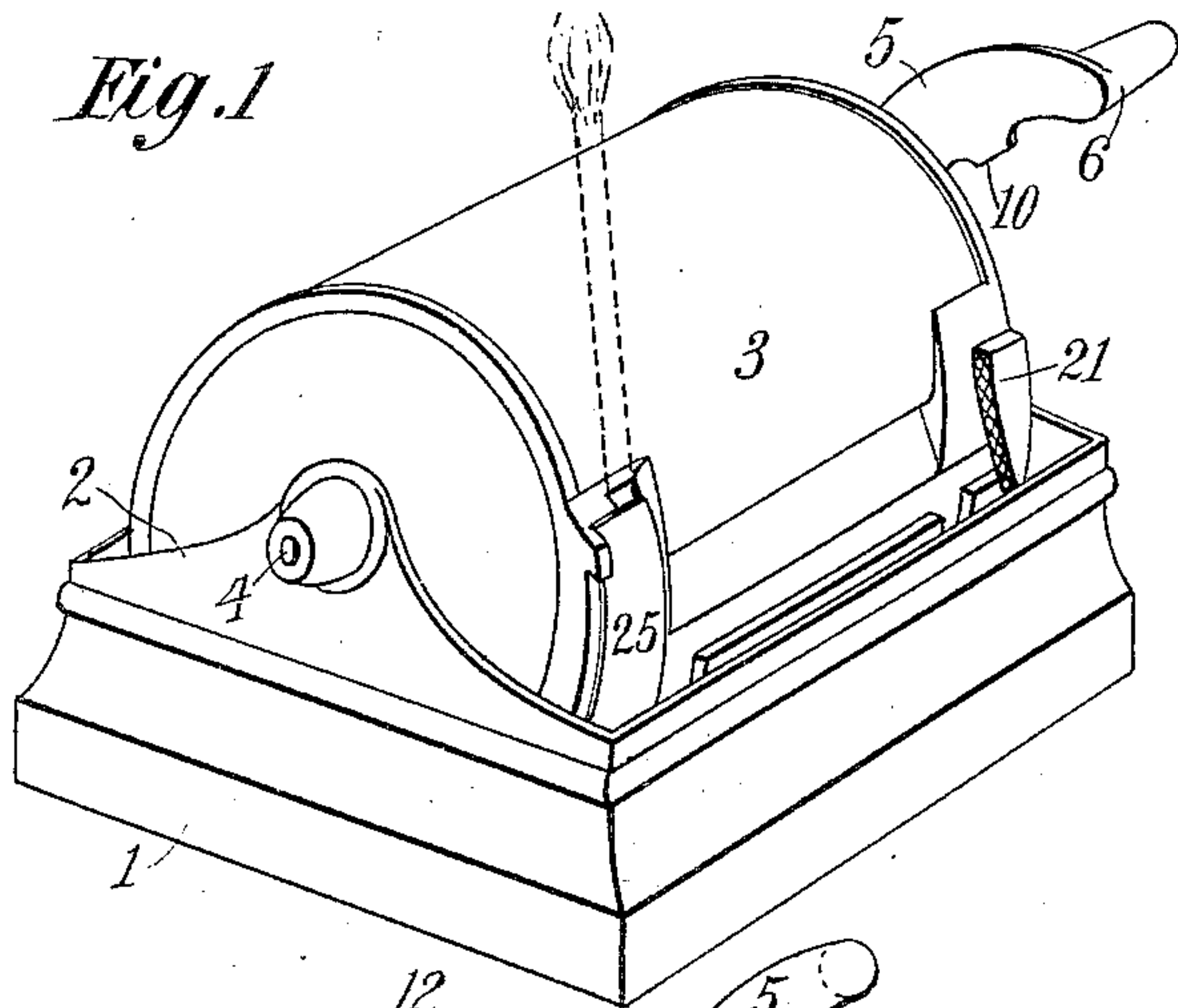


Fig. 8

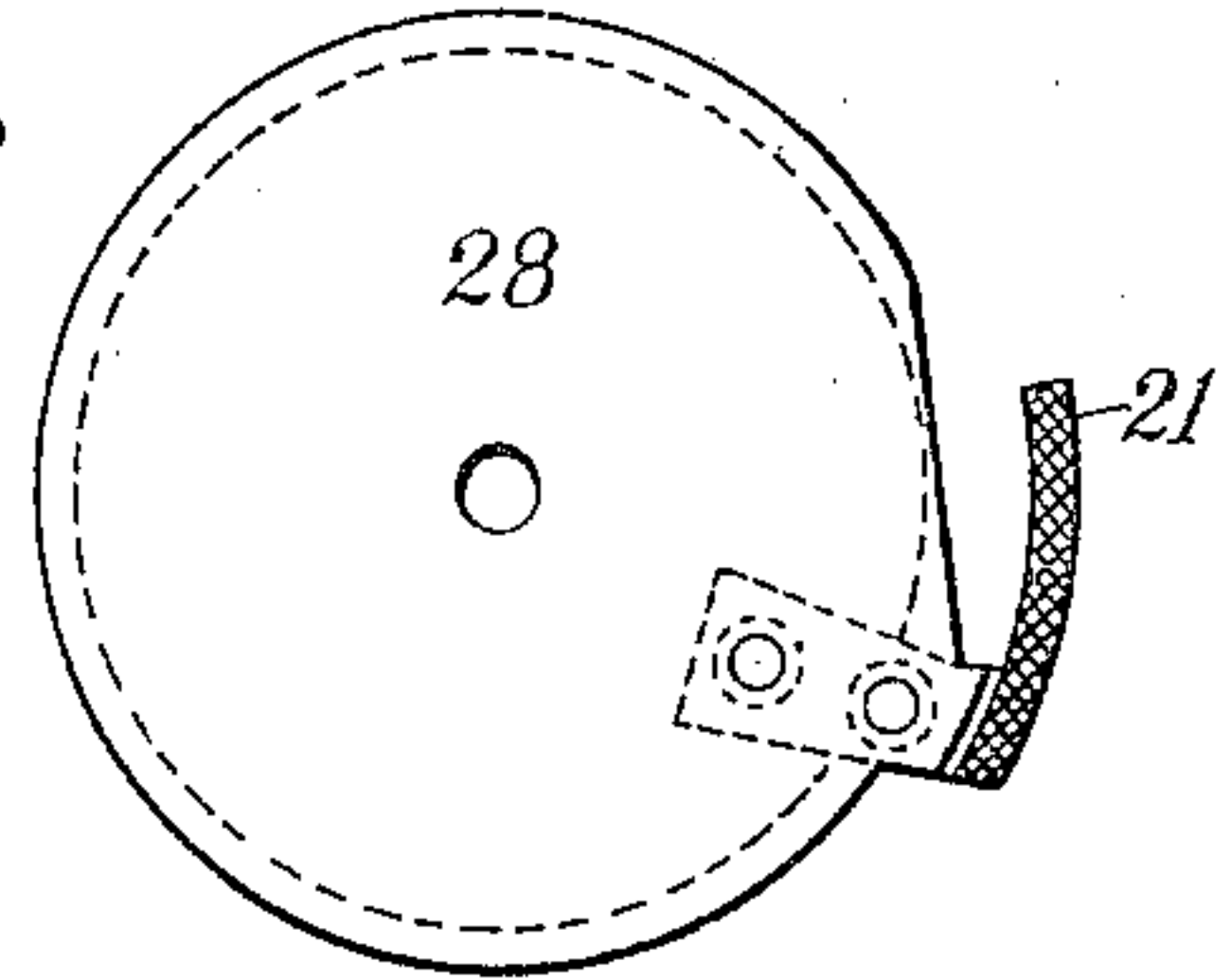


Fig. 9

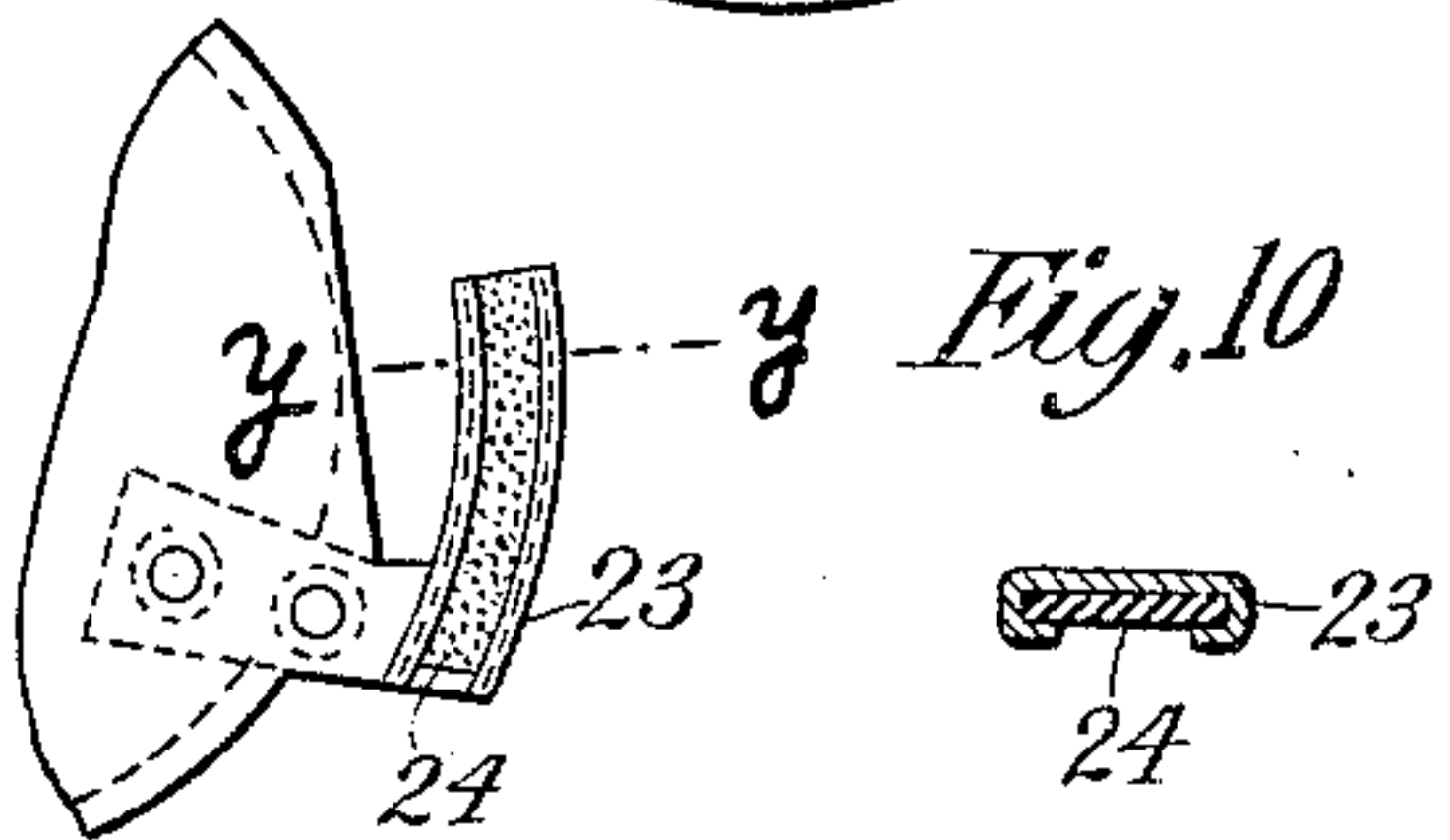


Fig. 10

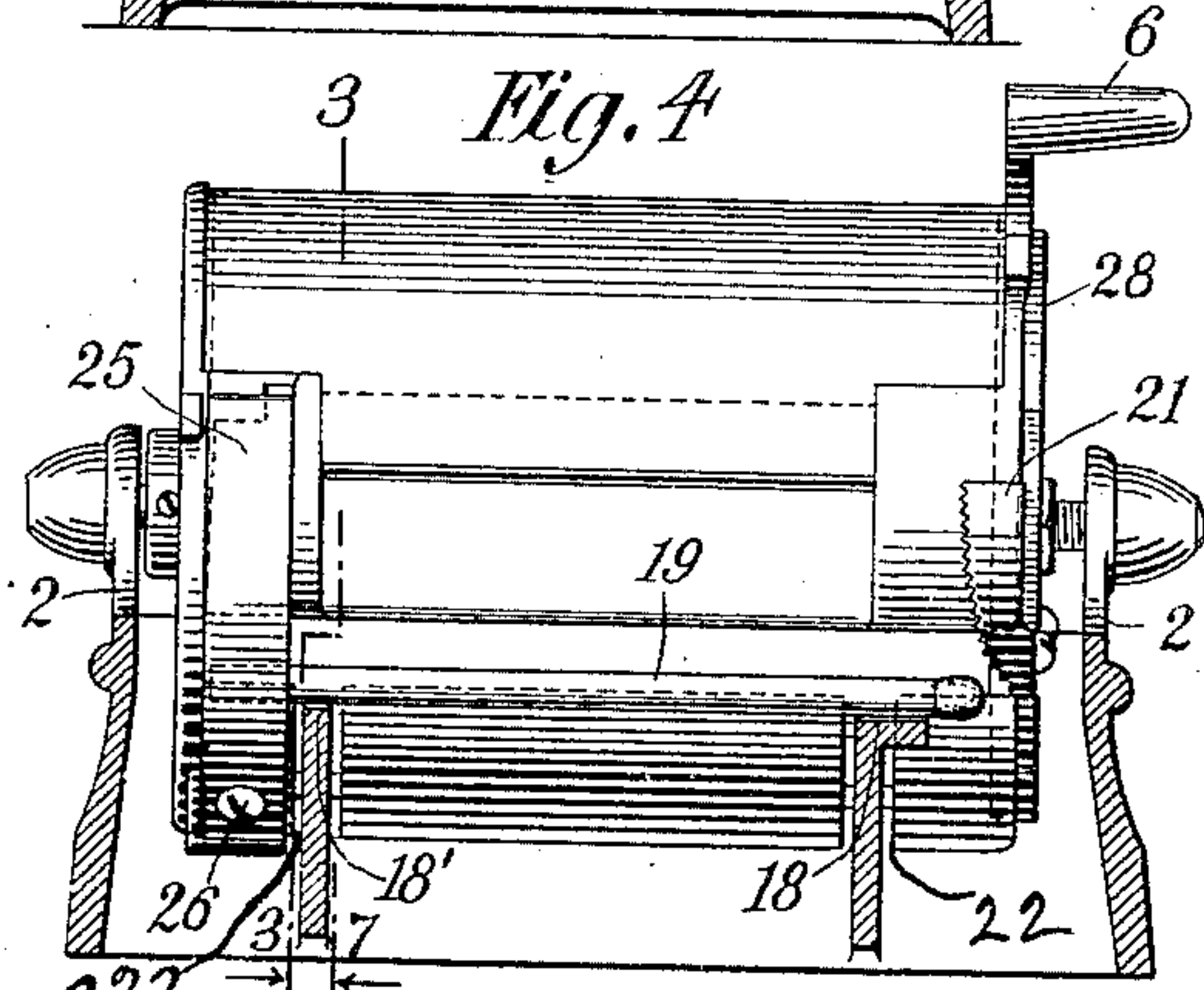
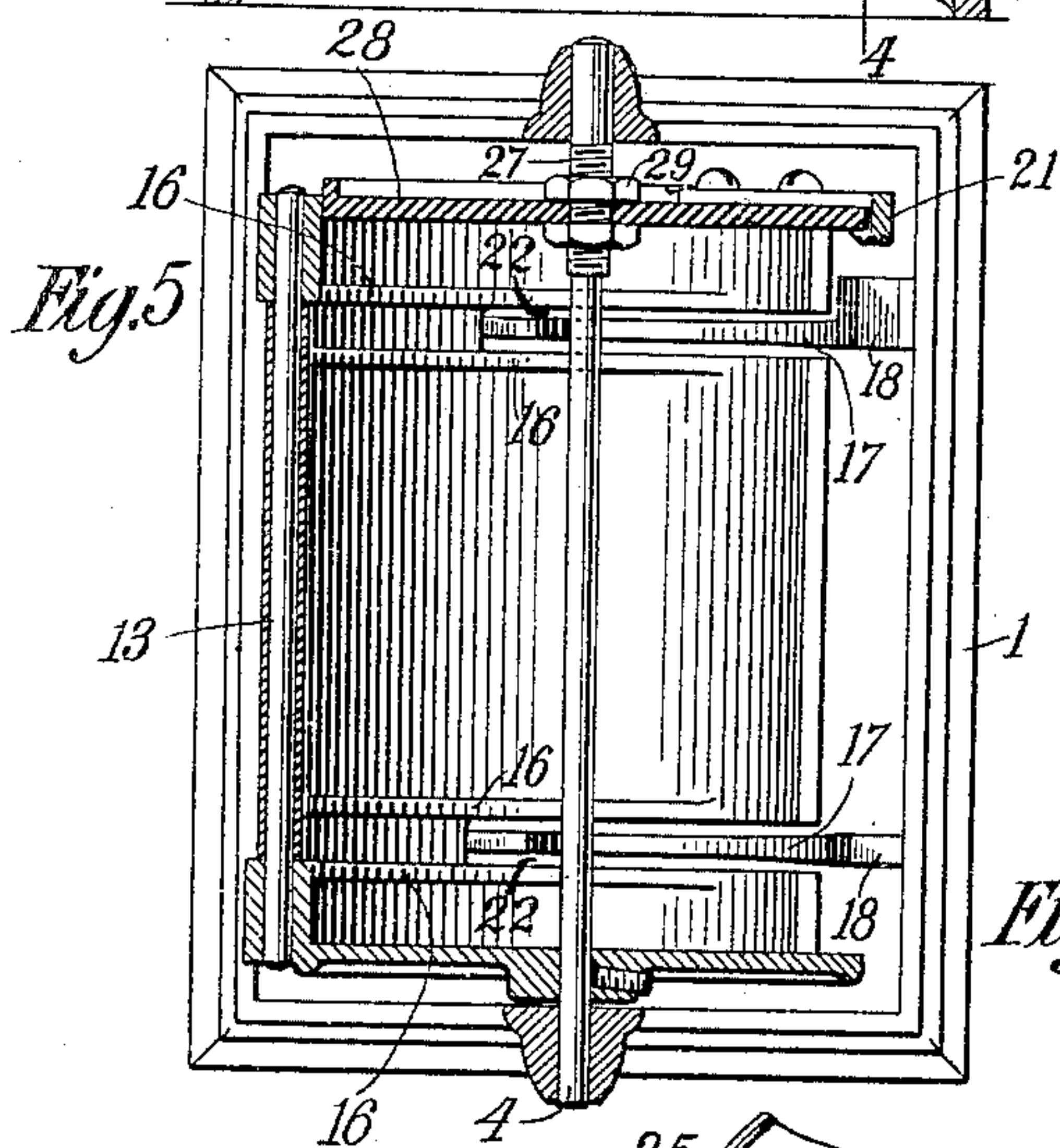
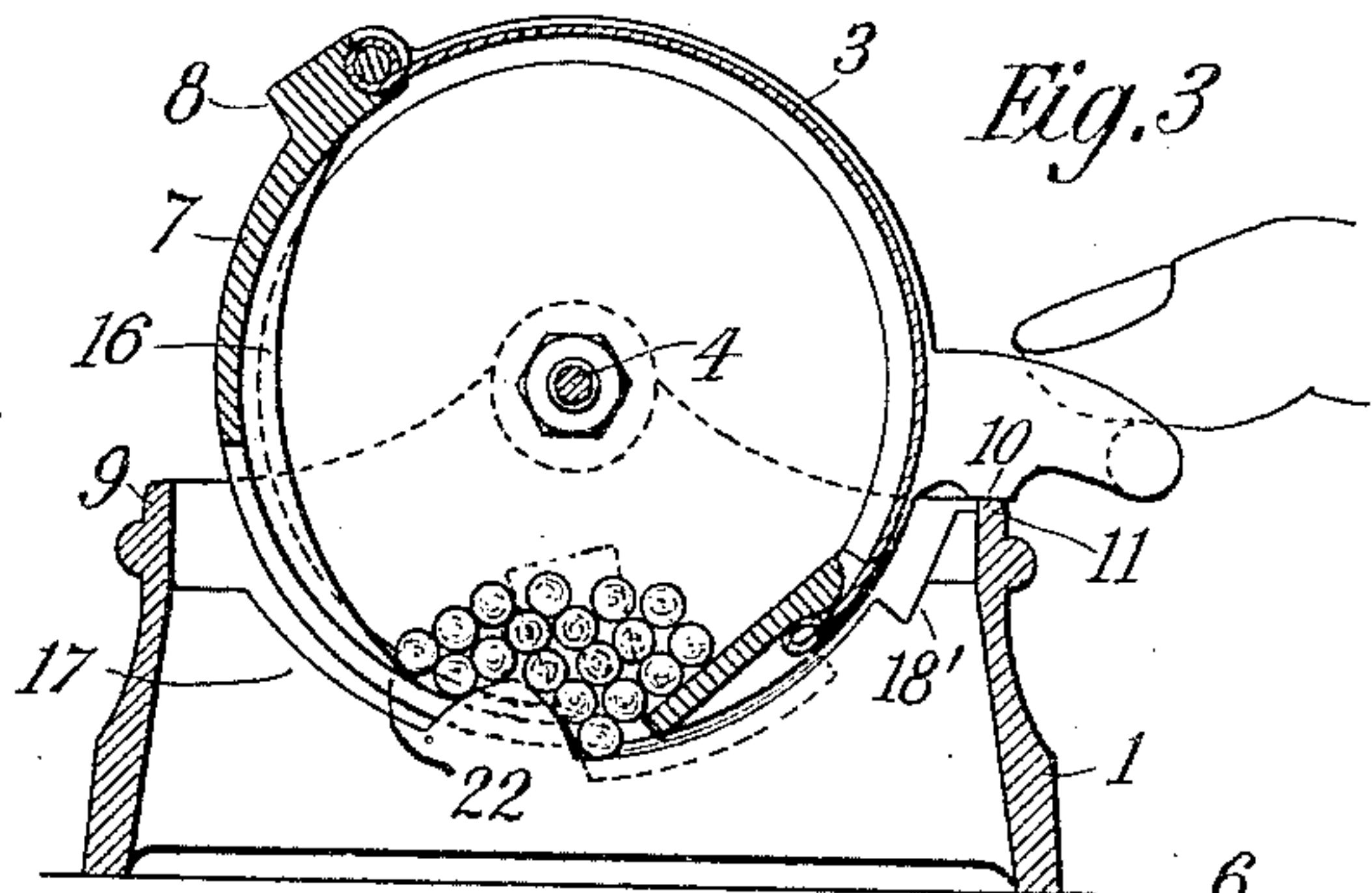
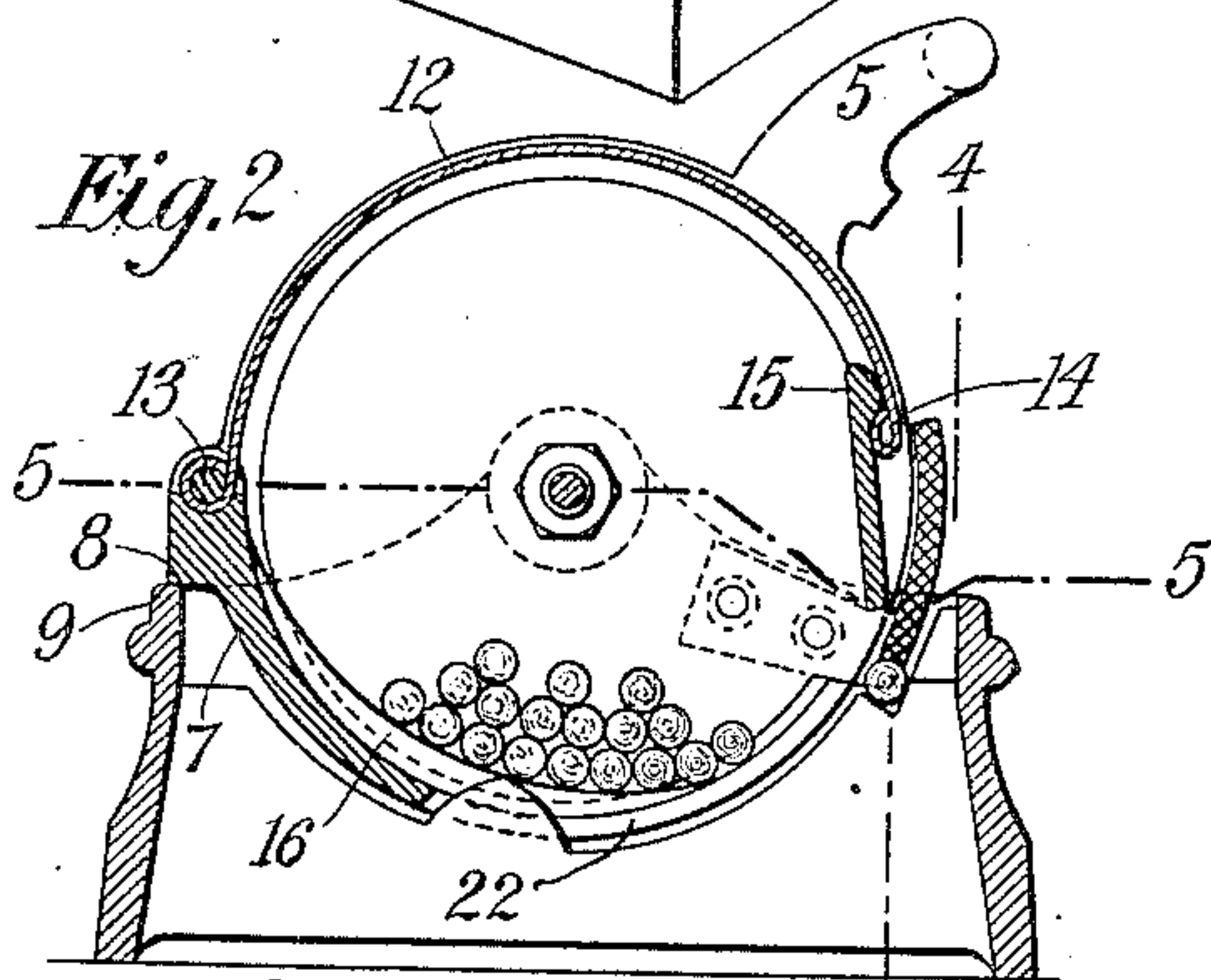
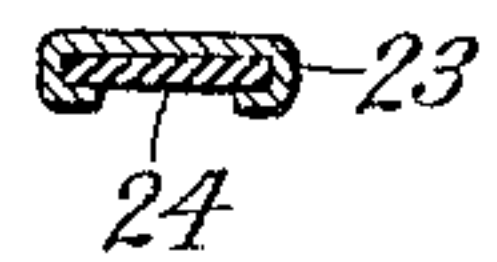


Fig. 6

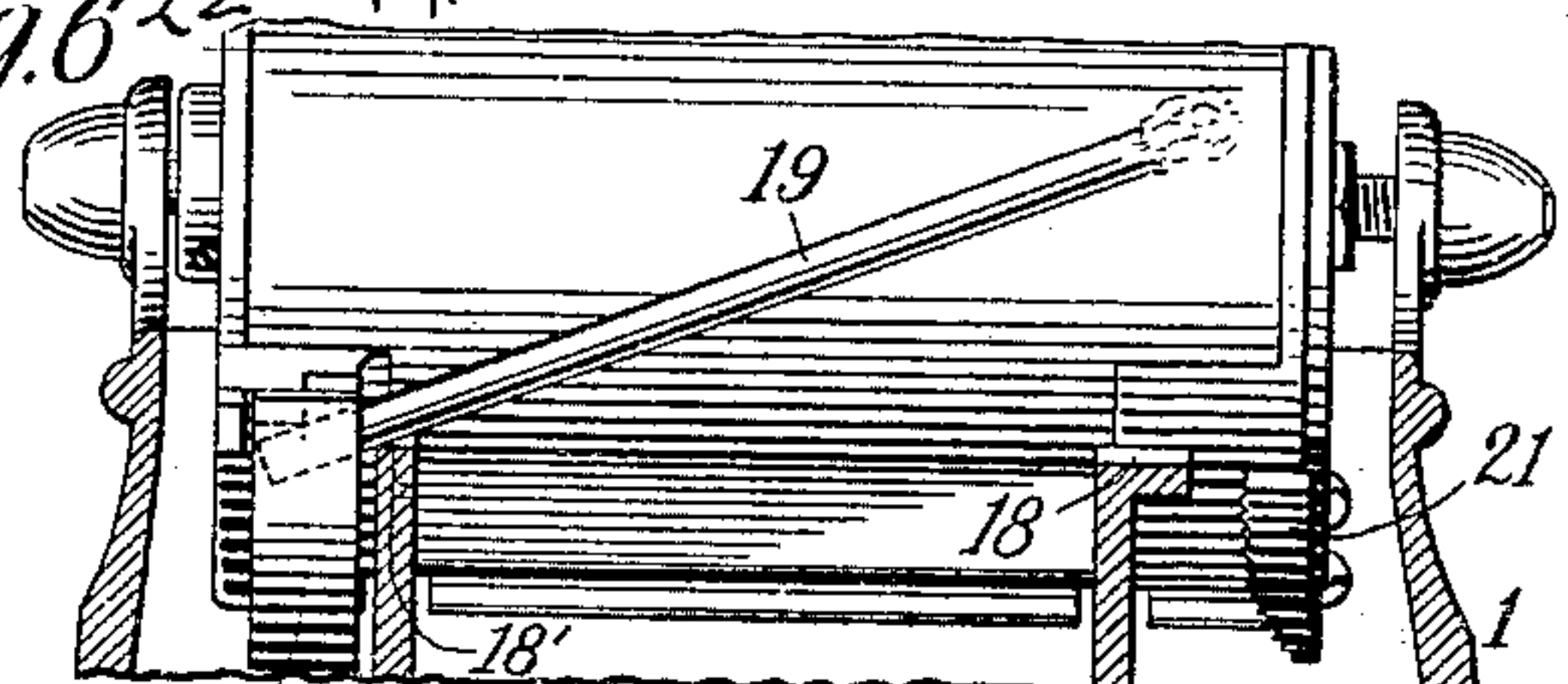
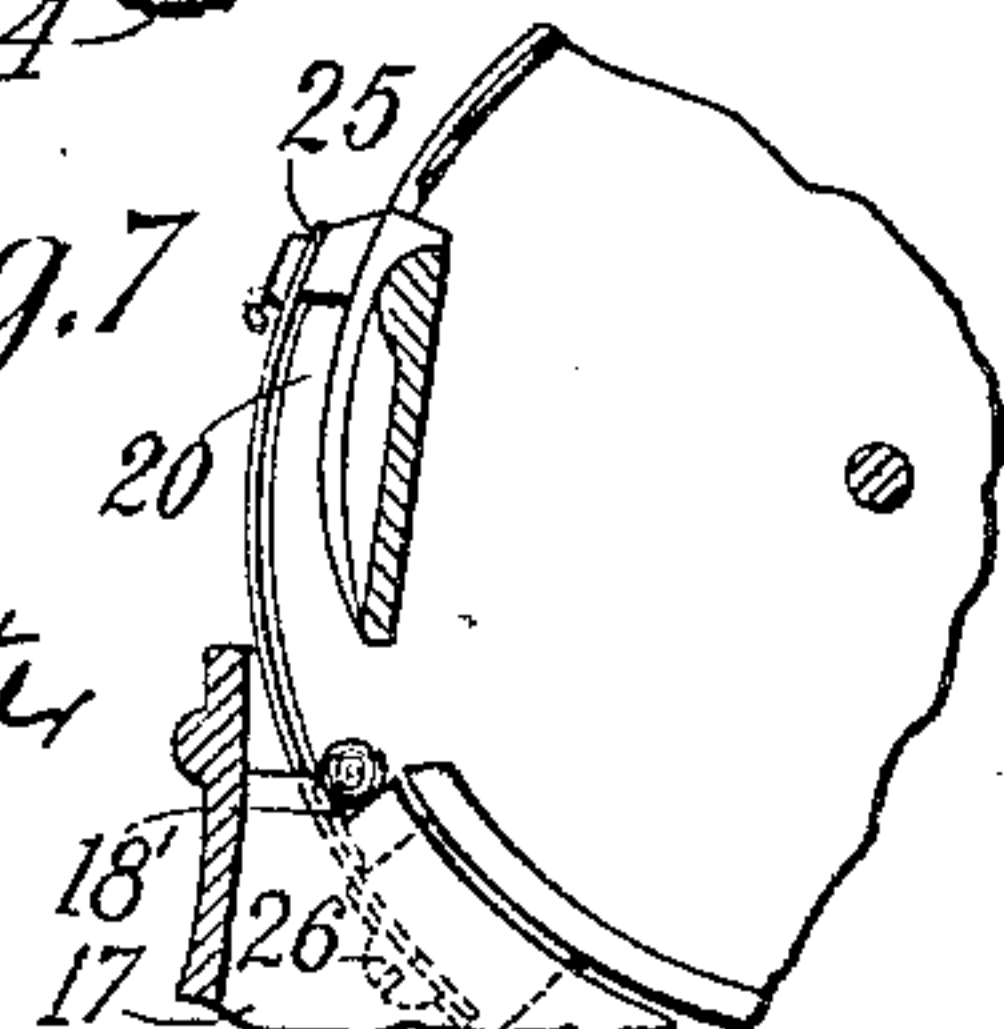


Fig. 7



Witnesses
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UNITED STATES PATENT OFFICE.

GEORGES BOUTHINON, OF NEW YORK, N. Y.

MATCH-SERVER.

No. 929,823.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, GEORGES BOUTHINON, a citizen of the Republic of France, residing in the borough of Manhattan, city, county, and State of New York, have invented a certain new and useful Improvement in Match-Servers, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to devices for automatically serving lighted matches.

By the present device, a match is struck and held ready to be picked up by the person desiring to use the same.

The operation of feeding the match, striking the same, and holding it in position for delivery, is performed by the pressing of a lever.

Referring to the drawings, Figure 1, is a perspective view of a device embodying my invention, showing a lighted match ready for use. Fig. 2 shows a cross-section of my device in which the same is in normal position. Fig. 3 is a cross-section, showing the device in operation. Fig. 4 is a front elevation view. Fig. 5 is a sectional plan view on line 5—5 of Fig. 2. Fig. 6 is a front view of my device, showing a match immediately after being lighted, and in the act of being raised into position for delivery. Fig. 7 is an enlarged view of the match holding mechanism. Fig. 8 is an enlarged view of the match striking mechanism. Fig. 9 shows a modification of Fig. 8. Fig. 10 is a cross-section of Fig. 9, taken at the line *y—y*.

Referring more in detail to the drawing, 1 represents the base of the device, having the lugs 2 in which a cylindrical match holder 3, is mounted, so as to rock on the shaft 4.

5 is a lever rigidly attached to one end of the cylinder 3, and 6 represents the handle of the lever. In the cylinder 3 is mounted the weight 7, which gravitates the cylinder to normal position, as shown in Fig. 2. The shoulder 8, by coming into contact with the stop 9, limits the backward travel of the cylinder 3, (see Fig. 2) while the lug 10 of the lever 5, limits the forward travel of the cylinder by coming into contact with the base of the device at 11.

12 represents the cover of the match cylinder, one end of which hinges at 13, the other end 14, being adapted to lock over the lug 15.

16 represents tracks, integral with the in-

ner wall of the cylinder 3, and running transversely thereto as shown in Fig. 5. These tracks are adapted to carry matches and deliver the same to tracks 17, along which they travel to the ledges 18. The clean end of the match 19, lies at the bottom of the match holder 20, while the head of the match lies adjacent the striking mechanism 21, as shown in Fig. 4. The cylinder 3, is provided with a slot 22, which is large enough to permit of the passage of one match at a time to the track 17.

Fig. 7, is an enlarged view of the match holding mechanism. 25 represents an arc-spring fastened to the cylinder at 26, and carried therewith. The other end of this spring is free as shown in Fig. 6. The space between the cylinder and the spring is designed to taper upward, so that when a match is pressed into perpendicular position by the operation shown in Fig. 6, the spring is forced outward by the breadth of the match which it holds securely when in a vertical position.

The shaft 4 is provided with a screw 27, which coöperates with one end of the cylinder 28, by means of the nut 29, operating on said screw, the length of the cylinder may be adjusted to the length of the matches carried therein.

22 represents a slot in the lower part of the cylinder 3, running longitudinally of the cylinder. This slot is large enough in width and length to admit of the passage by gravity of one match thereinto and onto the tracks 17—17, along which it is propelled by the lip of the cylinder formed by the slot 22 and the cutaway for the tracks 17—17 extending into the cylinder as shown in Fig. 4.

Matches are put into the cylinder 3 by raising the cover 12, all the heads of the matches being laid together on the side adjacent the striking mechanism. It will readily be seen, that by the depression of the lever 5, one match will fall into the slot 22, onto the track 17, and upon releasing the lever 5, the match will be carried by the said slot up the track 17 onto the ledge 18 as shown in Fig. 4. Upon a second depression of the lever 5, the striking mechanism 21, rubbing against the head of the match will ignite the match, while the match holder 20 presses over the clean end of the match, the ledge 18' pushing the match into perpendicular position as the cylinder is brought

down. Upon the release of the lever, the lighted match assumes the position shown in Fig. 1, while a second match rests on the ledges 18, ready for ignition upon another depression of the lever 5.

I have shown at Fig. 9, a modification of the striking mechanism. Instead of a rough surface, such as shown at 21, I have provided an envelop 23, into which is slid a piece of emery paper 24, or other suitable material, adapted to ignite matches by abrasion. With such construction, it will readily be seen, that the striking surface may be changed when desirable.

It is of course apparent, that those familiar with this art may make many modifications in the size proportion and numbers of parts of this device, part of the same may be used without employing the whole and parts may be used in connection with other devices without departing from the spirit of this invention or losing the advantages of the same. I do not, therefore, desire to be limited to the disclosure which has been made in this case, but what I claim as new and what I desire to secure by Letters Patent is set forth in the appended claims.

What I claim as new is:

1. In a match server, a base, a cylindrical match holder, a central rocking shaft mounted therein, means to lock the match holder within limited travel, means for feeding matches from said cylinder to a ledge, and mechanism for igniting said matches and means for holding them in lighted condition in vertical position, substantially as shown.

2. In match servers, a cylinder adapted to receive matches, a weight attached to one side of said cylinder to gravitate it into normal position, means for delivering matches to a ledge and means for striking said matches and means for holding the same in lighted condition in vertical position.

3. In match servers, a cylinder eccentrically weighted, a cover hinged to and adapted to rock over said cylinder, means for delivering matches from said cylinder to a ledge, and means for lighting said matches and means for holding them in vertical position.

4. In match servers, a cylindrical match holder adapted to rock in a limited arc, tracks within said cylinder, tracks in the base extending through transverse slots in said cylinder and communicating with the first mentioned tracks and a slot adapted to carry matches with the movement of the cylinder along said tracks to a ledge and means for igniting said matches and means for raising them into vertical position.

5. In a match server, a cylinder adapted to receive matches, one end of said cylinder being adjustable on the shaft thereof, means for serving matches from said cylinder, a ledge to receive such matches from said cylinder, and means for striking said matches means for forcing the same into vertical position, and means for holding the lighted match in such position.

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Witnesses:

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