

VENDING APPARATUS.

962,283.

Patented June 21, 1910.

2 SHEETS—SHEET 1.

Fig. 1.

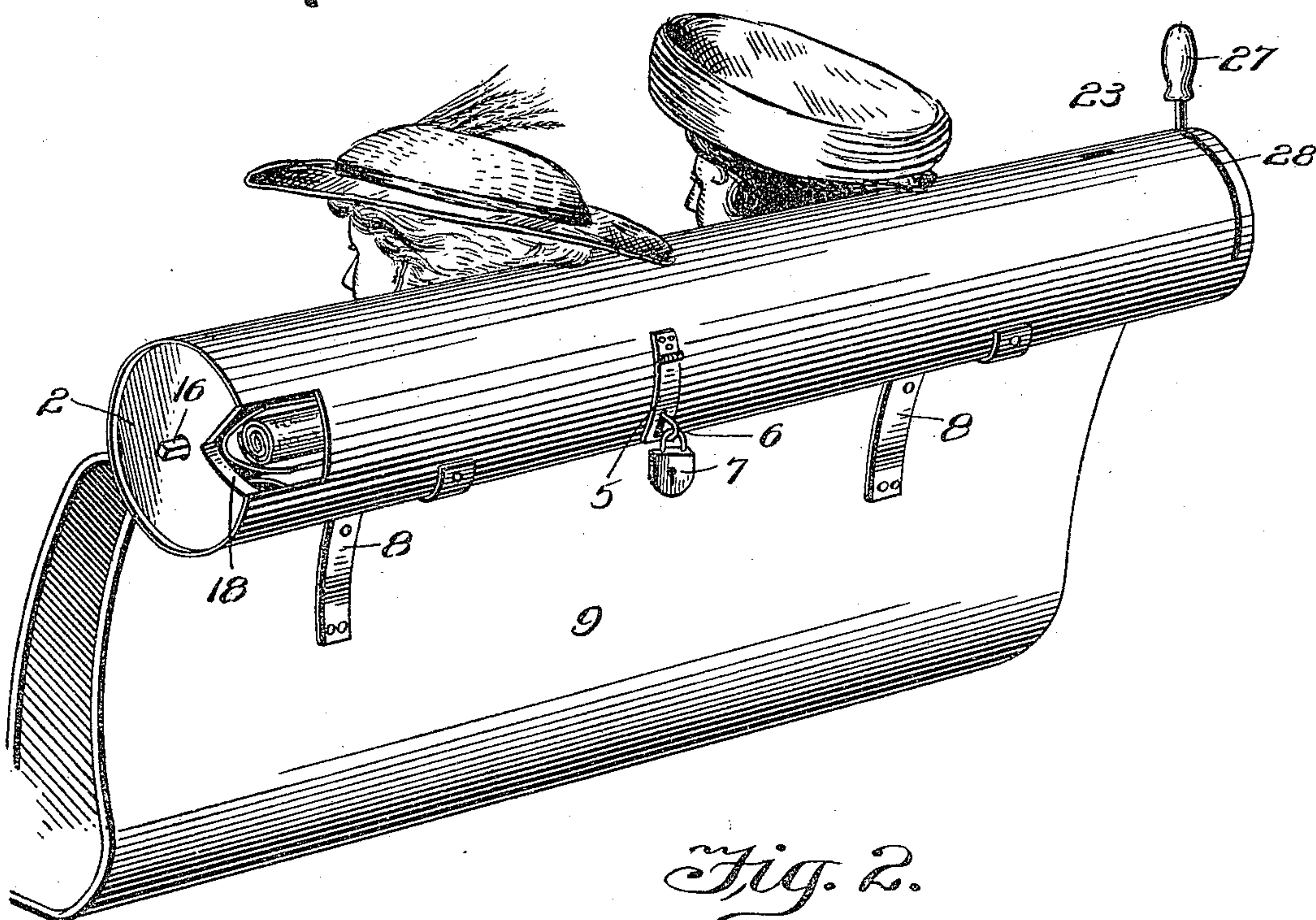
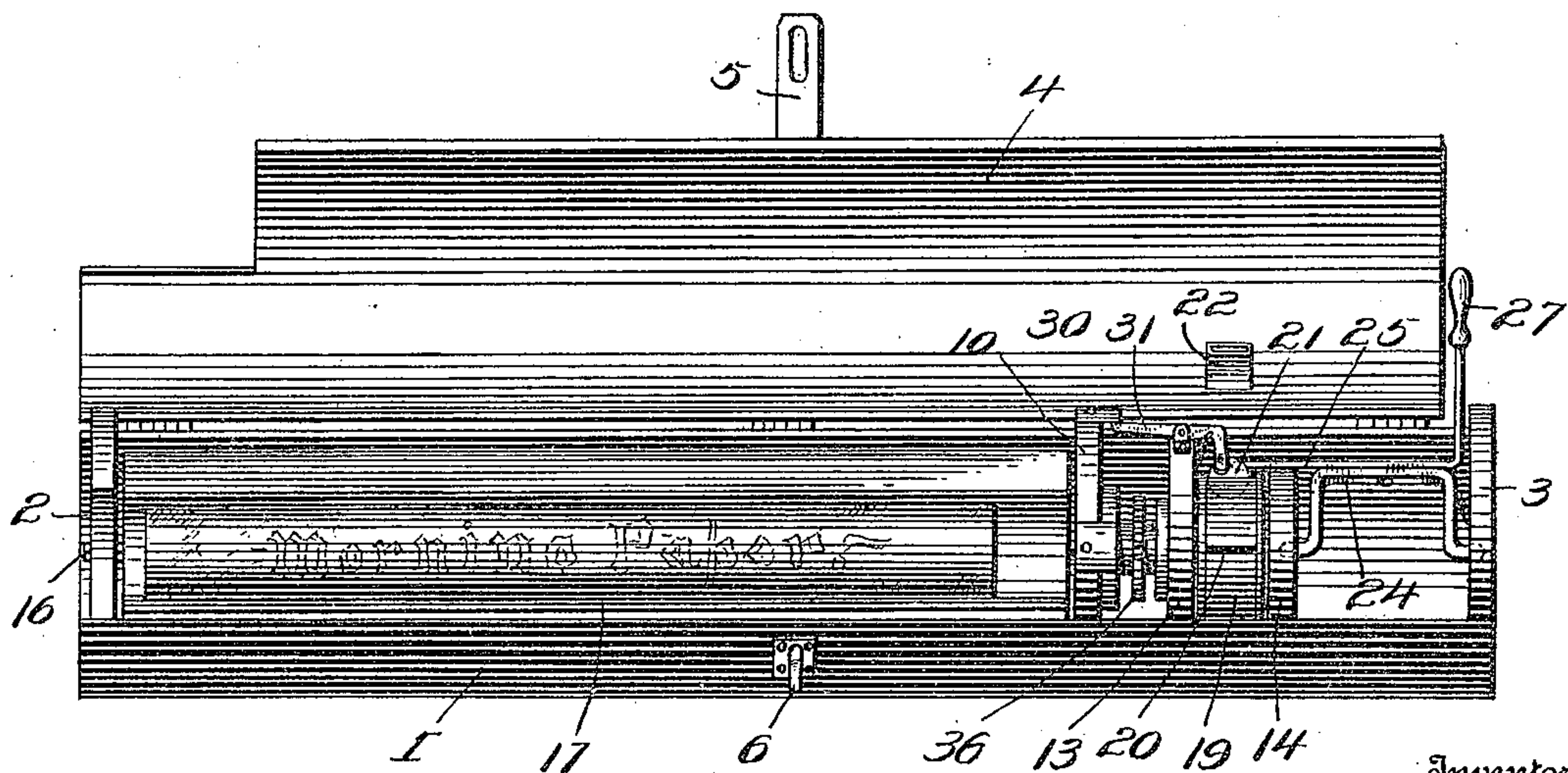


Fig. 2.



Witnesses

G. F. Tolson

C. C. Hines.

Inventors

John Whistler.
Richard A. Dudek.

34 Victor J. Evans

Attorney.

J. WHISTLER & R. A. DUDECK.

VENDING APPARATUS.

APPLICATION FILED MAY 14, 1909.

962,283.

Patented June 21, 1910.

2 SHEETS—SHEET 2.

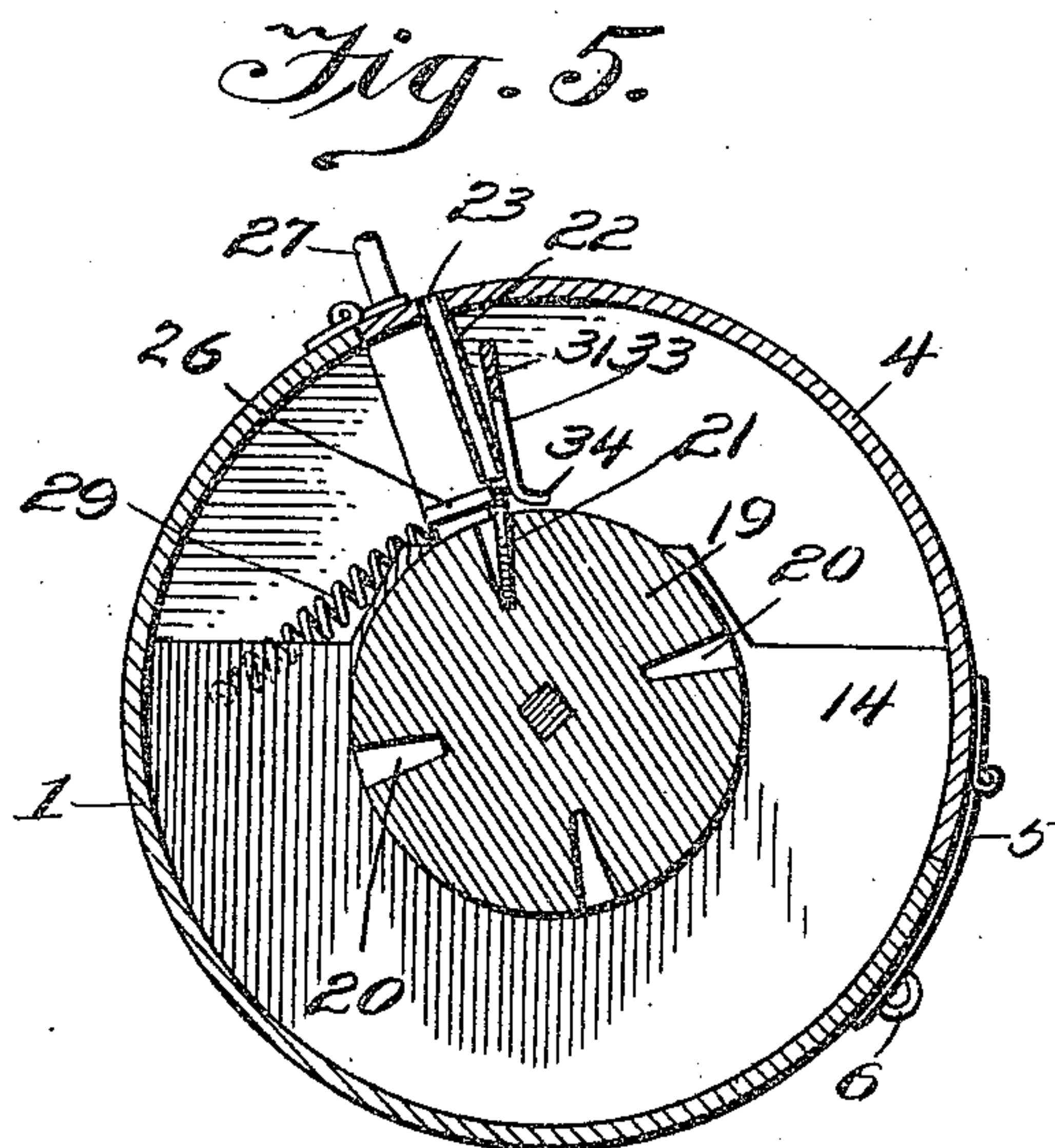
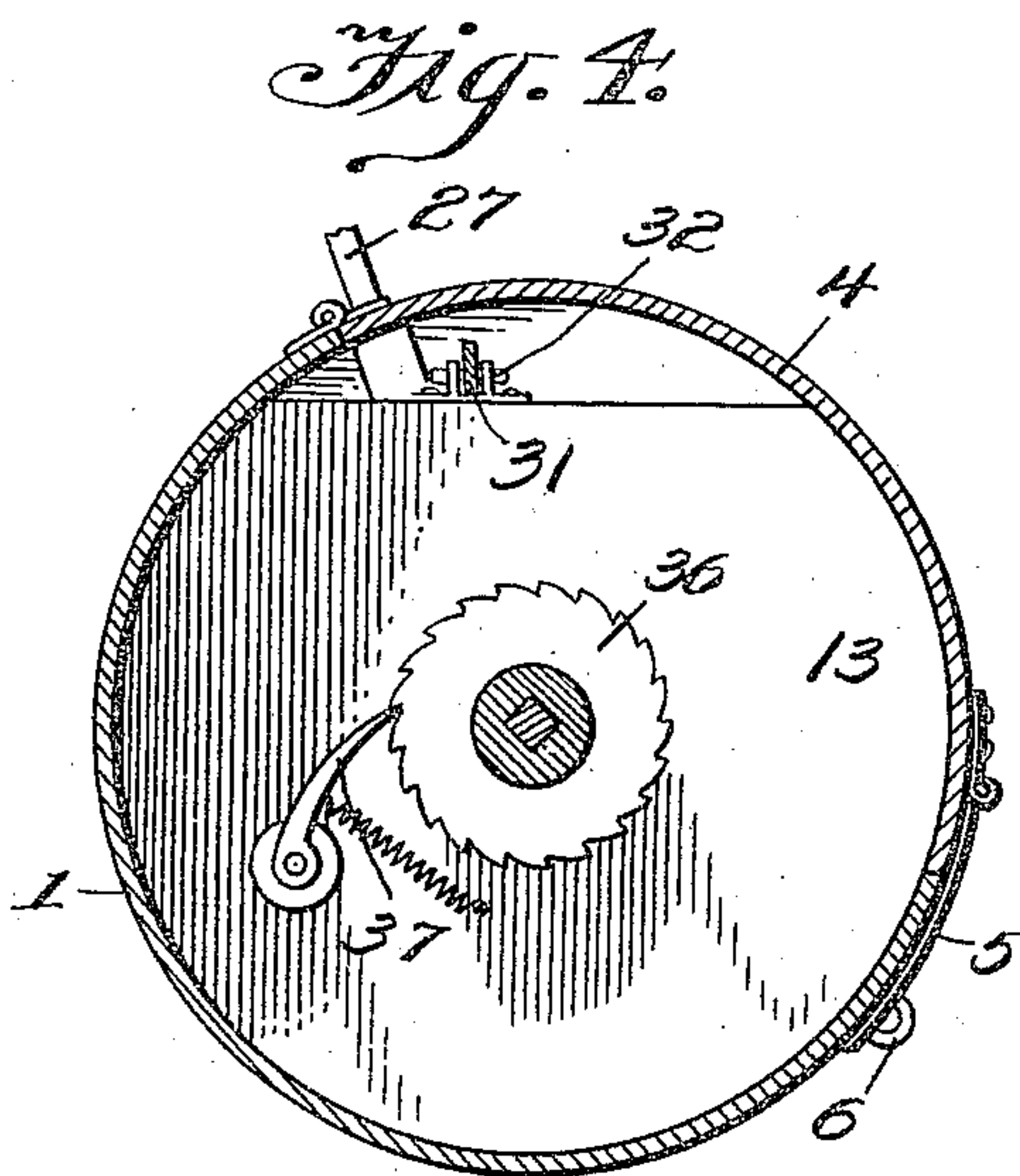
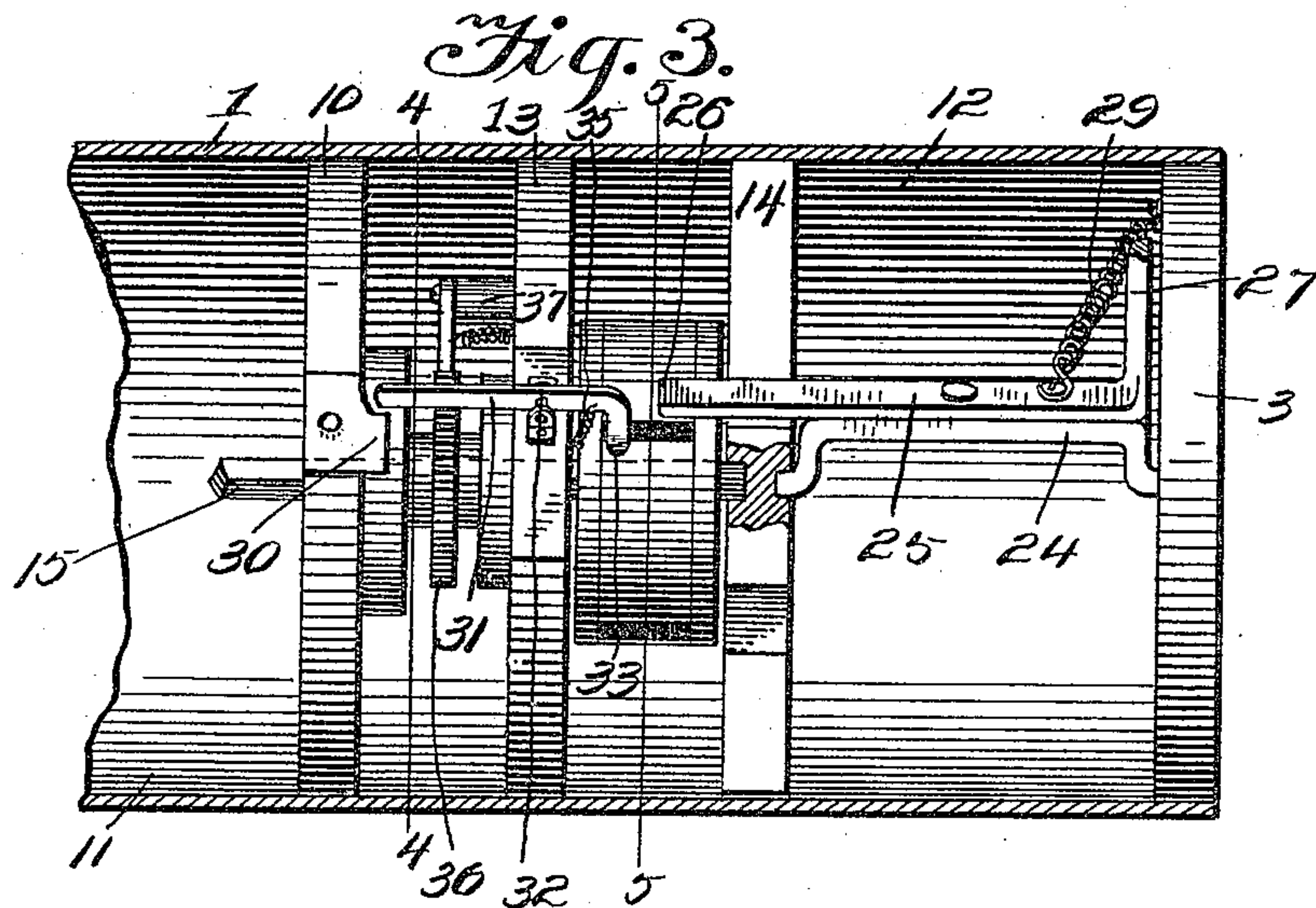
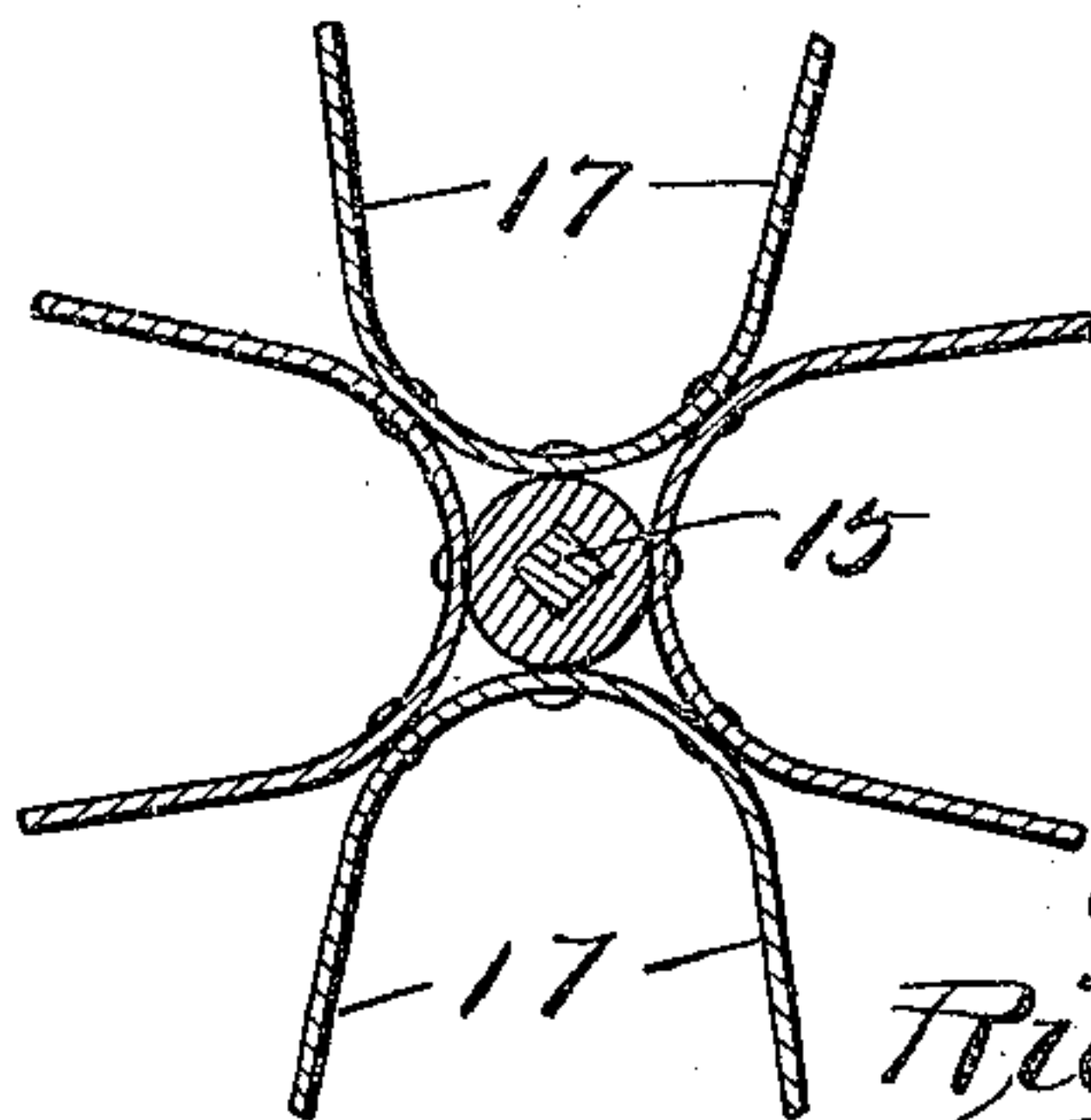


Fig. 6.



Witnesses

G. A. Tolson.

C. C. Hines.

Inventors

John Whistler.
Richard H. Dudeck.

By

Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

JOHN WHISTLER AND RICHARD A. DUDECK, OF ST. LOUIS, MISSOURI.

VENDING APPARATUS.

962,283.

Specification of Letters Patent. Patented June 21, 1910.

Application filed May 14, 1909. Serial No. 495,944.

To all whom it may concern:

Be it known that we, JOHN WHISTLER and RICHARD A. DUDECK, citizens of the United States, residing at St. Louis, State of Missouri, have invented new and useful Improvements in Vending Apparatus, of which the following is a specification.

This invention relates to an apparatus for containing and vending newspapers, sheet music and other like articles, its object being to provide a simple, reliable and inexpensive type of vending device which may be attached to and supported from the back of a car seat or other support and actuated upon the deposit of a prescribed denomination of coin for the discharge of a single newspaper or other article at a time.

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

Figure 1 is a perspective view showing the application of the invention to the back of a car seat. Fig. 2 is a top plan view of the device showing the cover or door section thrown open. Fig. 3 is a longitudinal section on an enlarged scale through one end of the casing, and showing the coin-controlled actuating mechanism. Figs. 4 and 5 are transverse sections on the lines 4—4 and 5—5 of Fig. 3. Fig. 6 is a cross section through the rotary goods holder or reel.

Referring to the drawings, 1 designates an elongated cylindrical casing, having end heads or walls 2 and 3, and a hinge or pivoted door or cover 4 adapted to close an opening in the upper rear portion of said casing. The door is provided at its free edge with a hasp 5 adapted to engage a staple 6 on the casing, to which staple a padlock 7 may be applied to hold the door closed and prevent access to the interior of the casing by an unauthorized person, but any other suitable type of locking means may be employed. The casing is provided with bracket arms 8 or with other suitable attaching elements by which it may be fastened to the back 9 of a car seat, opera chair or any other suitable support.

A partition 10 subdivides the interior of the casing into a magazine or dispensing compartment 11 and a chamber or compartment 12 for the inclosure of the coin-controlled operating mechanism. In the compartment 12 are bearing blocks or members

13 and 14 arranged in spaced relation to each other and to the partition 10, and journaled at one end in said partition and bearing blocks and at its other end in the end wall 2 of the casing is a longitudinal shaft 15, the latter-named end of the shaft being angular in form and arranged to project beyond said head, as indicated at 16, so that a crank or key may be applied thereto for turning the shaft to enable the contents of the magazine remaining unsold at any certain date to be turned into position for removal and conveniently relieved of old articles and replenished with new ones without the necessity of operating the coin-controlled mechanism a successive number of times. The portion of the shaft inclosed within the magazine compartment 11 is provided with a series of U-shaped or channel holders 17, secured to each other and to the shaft and projecting longitudinally and radially from the latter, so as to form a reel having a number of individual pockets, channels or holders to receive an equivalent number of folded newspapers or other articles to be sold. The shaft is adapted to be intermittently operated by the coin-controlled actuating mechanism to successively bring the ends of the pockets adjacent to head 2 into registry with an outlet slot 18 formed by cutting away portions of the head and door, which slot is of sufficient size for the insertion of the thumb and forefinger to enable the exposed newspaper or article to be grasped and withdrawn.

The coin-controlled mechanism comprises a hub or drum 19 fixed to the shaft between the bearings 13 and 14, and provided with a series of peripheral packets 20 equal in number to the reel pockets and each adapted to receive a portion of a coin 21 of a prescribed denomination. These packets are arranged successively registering in the rotation of the drum with a coin chute 22 carried by the cover and communicating with a coin insertion slot 23 formed in said cover. A U-shaped oscillating shaft or bracket 24 is journaled in the bearing 14 and head 3 and has secured thereto an arm or lever 25 having its inner end 26 projecting over the circumference of the drum and its outer end provided with an operating handle 27 movable in a slot 28 formed between the head 3 and adjacent end of the door or cover 4. This lever is normally movable without turning the drum 19, but as soon as a coin

of the proper denomination is inserted into the slot and enters the registering pocket 20, the projecting portion of the coin is arranged in the path of movement of the end 5 26 of the lever and forms a connection between the lever and drum, whereby when the lever is moved forwardly the drum will be turned a distance equal to the space between the adjacent pockets. A spring 29 10 connects the lever with the head 3 and returns the lever after each actuation to normal position.

The partition 10 is free for rotary movement in the casing 1 and is fixed to the shaft 15 15 and serves as an actuating disk or wheel. This partition, disk or wheel is provided at its side adjacent the bearing 13 with a series of stops or projections 30 equal in number to the holders 17 and slots 20. 20 These projections are normally engaged by the inner end of a locking dog 31 pivoted intermediately to the bearing 13, as at 32, to swing into and out of the path of said projections, the opposite end or arm of said dog being provided with a depending trip 25 33 having a forwardly bent or cam shaped extremity 34, adapted to partially overlie the drum pocket 20 which is in receiving position, so that the coin inserted in said 30 pocket will also engage said trip arm. The dog is normally maintained in locking position by a spring 35 connecting the trip arm with the bearing 13, and which serves to return said dog after each releasing move- 35 ment to normal position. The shaft 15 carries a ratchet wheel 36, the teeth of which are engaged by a spring actuated pawl 37 on the bearing 13, by which the shaft and reel are locked against retracted movement, 40 but are permitted to be intermediately fed forward by the coin-controlled mechanism.

In operation it will be understood that all the pockets of the reel except when disposed in alinement with the extraction slot 18 are 45 filled with rolled or folded copies of the newspaper, sheet music or other article to be vended, and that upon the insertion of a proper coin in the slot 23, said coin will drop by gravity into the registering slot 20 50 in the drum 19, so that its projecting portion will engage the rear surface of the trip 33 and front surface of the end 26 of the actuating lever 25. Hence when the handle 27 is turned forward in the slot 28, the lever 55 25 will engage the coin and force the same against the cam trip 33, by which the trip arm of the lever will be elevated against the resistance of the spring 35, while the

locking arm of said lever will be disposed below the plane of the projection 30 engaged 60 thereby, thus freeing the reel and drum for rotation, so that they may be turned by the movement of the lever to the extent sufficient to bring the next pocket in the direction of rotation into registry with the slot 18. 65 Upon the release of the lever the parts of the coin-controlled mechanism will then return to normal position, ready for a succeeding operation, while through the turning of the reel as before described, one of 70 the papers or articles contained in the magazine is exposed at the slot 18, allowing it to be extracted by the purchaser.

From the foregoing description, it will be seen that our invention provides a simple, 75 reliable and effective vending apparatus of the character and for the purpose set forth, which apparatus provides for a ready and convenient vending of newspapers or other 80 articles in compact form for dispensation.

It will be understood that while the coin-controlled mechanism cannot be operated until a proper coin is deposited to turn the reel forwardly, the pawl and ratchet mechanism also provides backward rotation of 85 the reel, so that the latter cannot be turned for the surreptitious removal of an article until the proper purchase price is prepaid.

Having thus fully described the invention, what is claimed as new, is:— 90

A vending apparatus embodying a rotary member provided with a series of stops, means for holding said member from retrograde rotation, a drum fixed to the rotary member in spaced relation thereto and provided with a series of pockets to partially 95 receive the inserted coins, a pivoted locking lever arranged between the rotary member and drum and having one end arranged to engage said stops and its other end provided with a right angularly bent trip arm adapted to be engaged by a coin in the receiving pocket, said arm being provided with a laterally bent tip, an operating device arranged to engage the coin and impart motion 105 to the drum and simultaneously release said locking lever, and a spring for returning the lever to normal position.

In testimony whereof we affix our signatures in presence of two witnesses. 110

JOHN WHISTLER.
RICHARD A. DUDECK.

Witnesses:

FRANK WHISTLER,
JOHN G. NELSON.