

(No Model.)

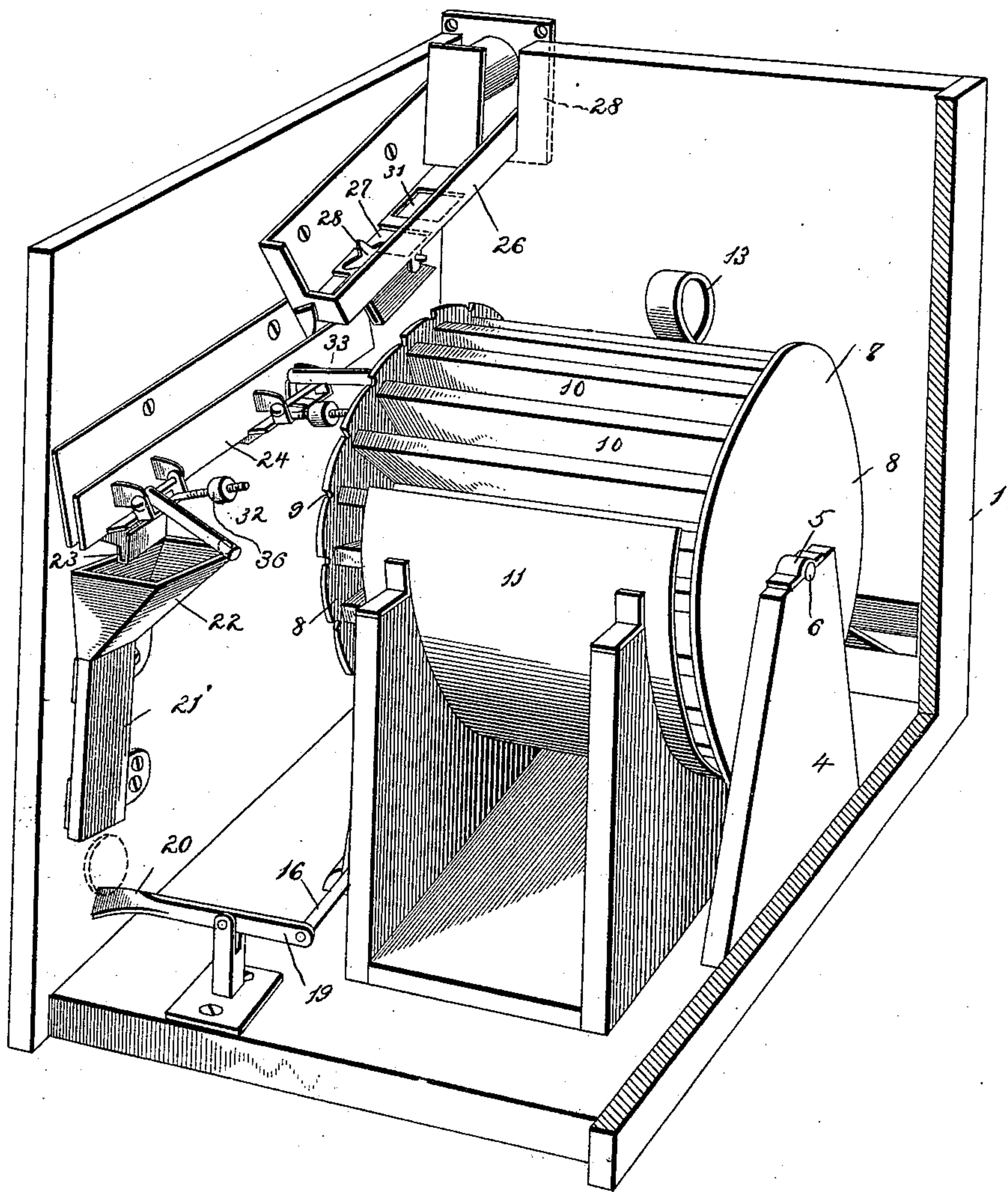
J. A. & W. T. WESTBAY.
VENDING MACHINE.

3 Sheets—Sheet 1.

No. 521,839.

Patented June 26, 1894.

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WITNESSES

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(No Model.)

3 Sheets—Sheet 2.

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FIG. 2.

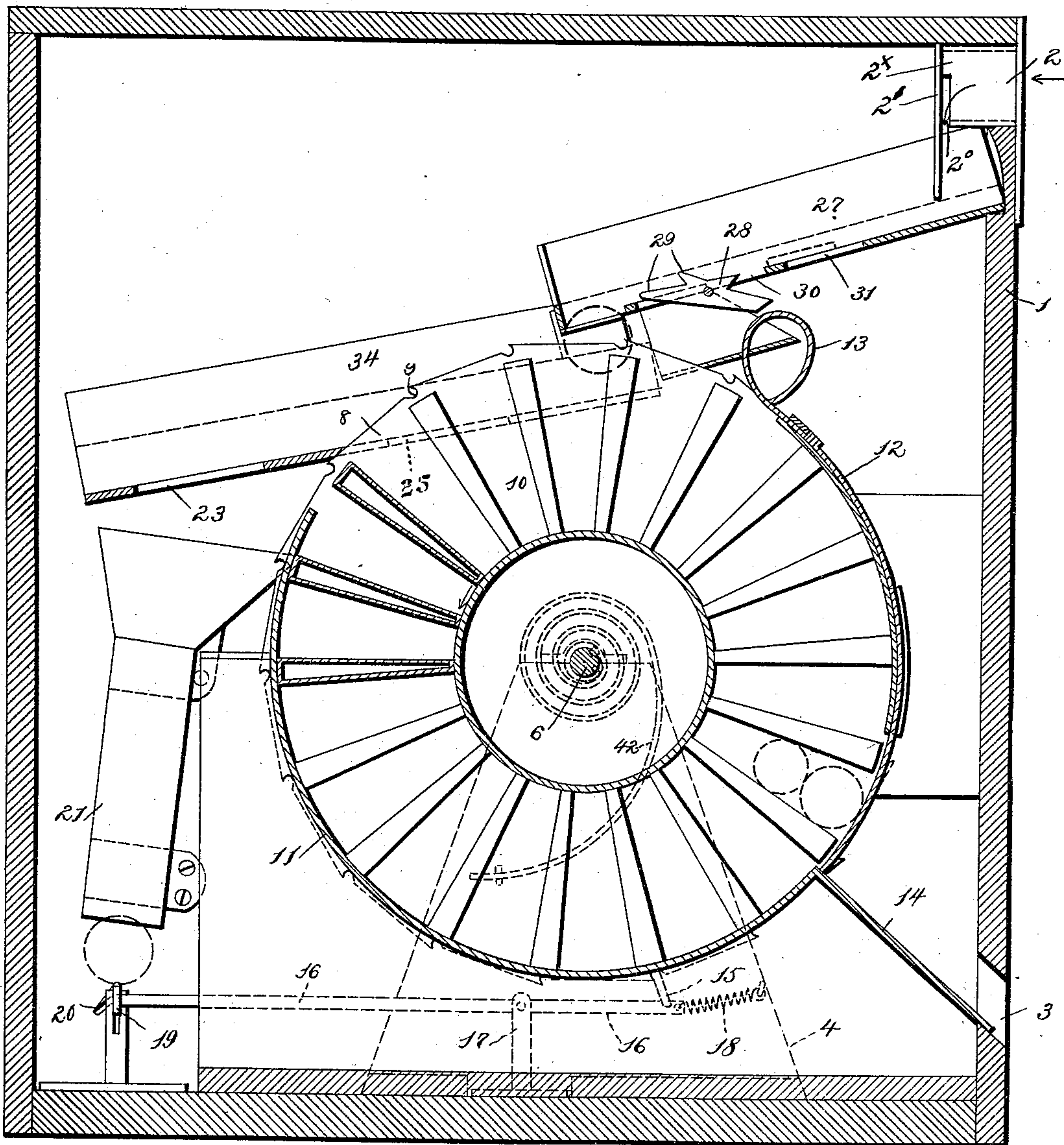


FIG. 3.

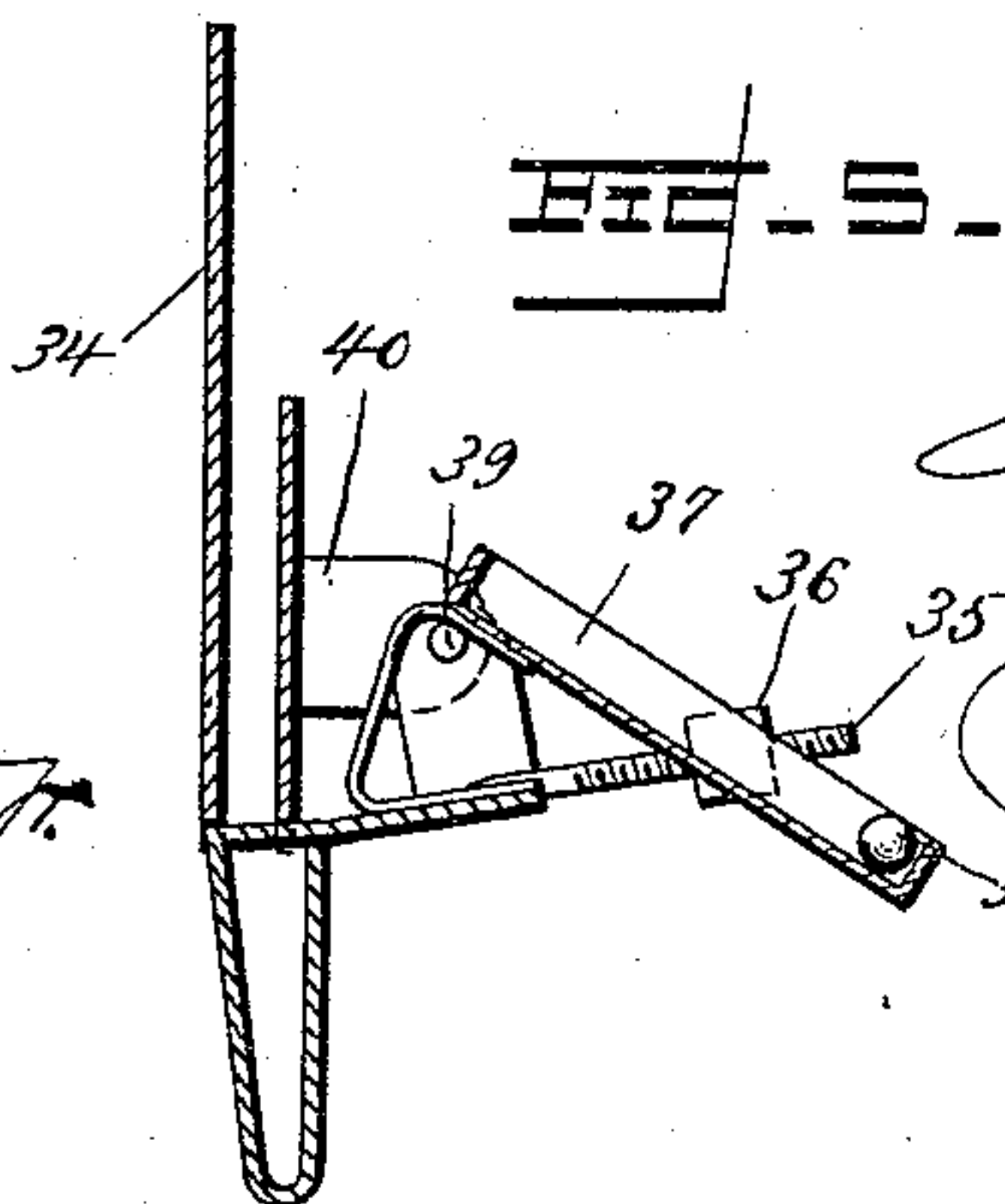
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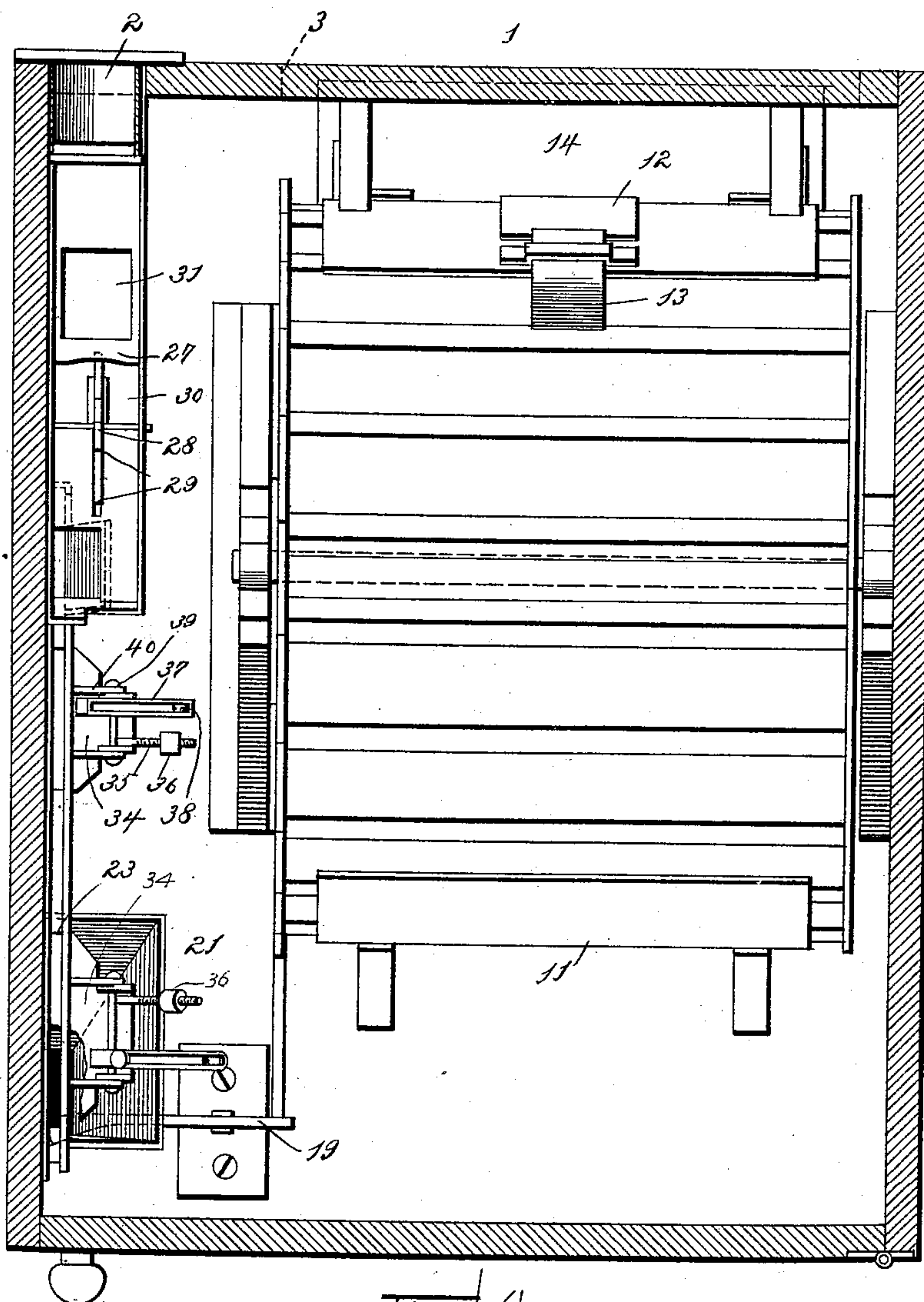
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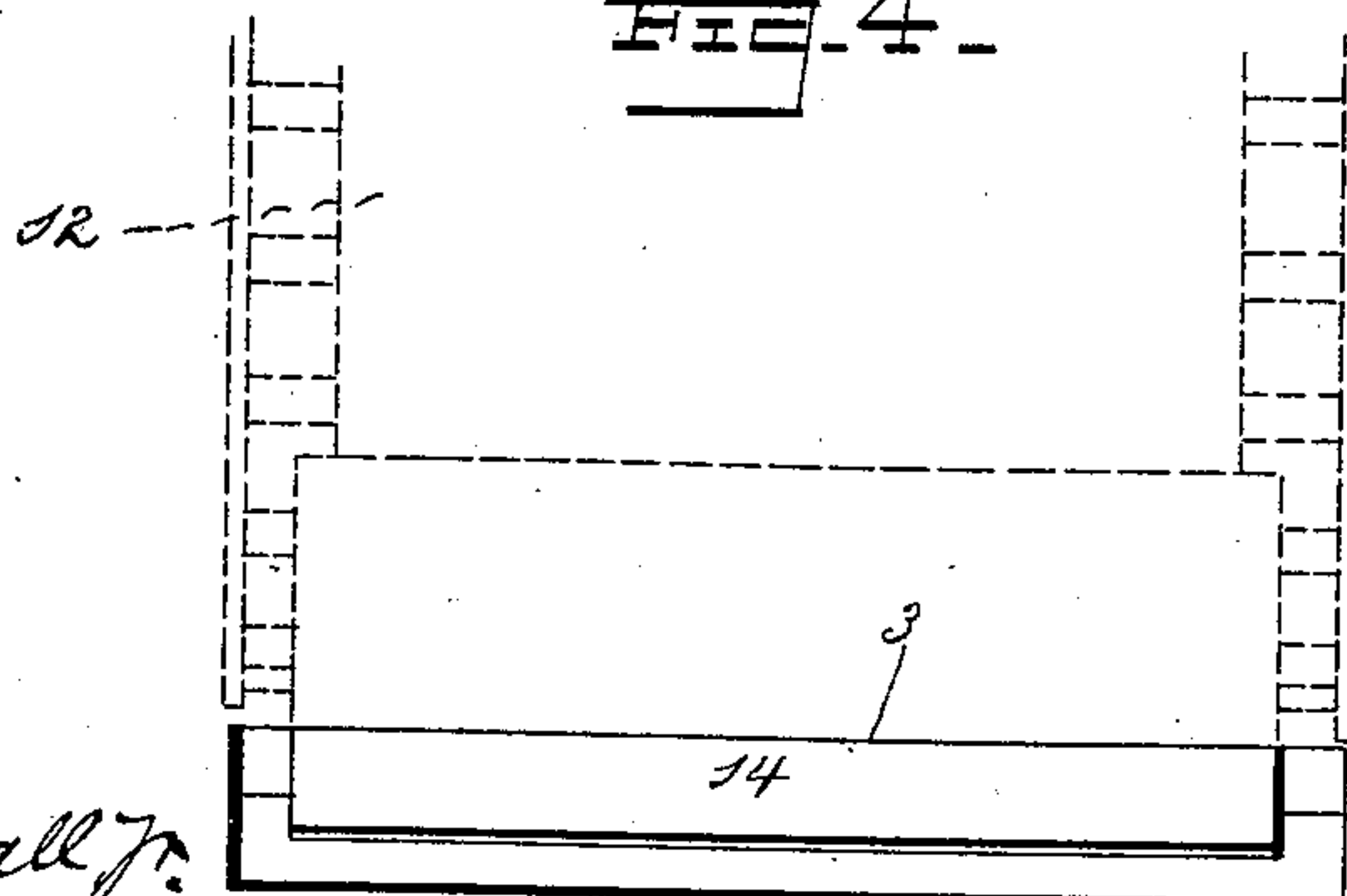
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REC. 3.



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UNITED STATES PATENT OFFICE.

JAMES ALLEN WESTBAY AND WILLIAM TANNER WESTBAY, OF McKEESPORT,
PENNSYLVANIA.

VENDING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 521,839, dated June 26, 1894.

Application filed March 9, 1894. Serial No. 502,973. (No model.)

To all whom it may concern:

Be it known that we, JAMES ALLEN WESTBAY and WILLIAM TANNER WESTBAY, citizens of the United States of America, residing at McKeesport, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Vending-Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

Our invention relates to improvements in vending machines of that class employing a rotary magazine and for dispensing or vending such articles as stick candy, cigars, cigarettes, cheroots or any other article in the form of a stick or long package.

The main object of our invention is the provision of a machine of this character which cannot be defrauded by the use of washers, lead disks or other devices used for the purpose of cheating the machine.

Another object of our invention is the provision of a vending machine which in addition to being proof against fraud will be the embodiment of simplicity and thus will not work out of order and which will be of inexpensive and durable construction thus providing a machine which will possess all the elements required to render the machine entirely practical.

In order that the details of construction and the operation of our machine will be understood as well as its many advantages be appreciated we have illustrated in the accompanying drawings a machine constructed according to our invention.

Figure 1 represents a perspective view of our improved vending machine with a portion of the casing or housing removed to clearly show the construction of the mechanism. Fig. 2 represents a vertical longitudinal sectional view of the machine one of the pockets or chambers of the magazine having two sticks or packages shown in dotted lines therein to illustrate how the chambers contain the articles for delivery. Fig. 3 represents a plan view of the machine with the casing partly in section, and Figs. 4 and 5 represent detail views of parts of our machine to more clearly show their peculiar details of construction.

Referring by numerals to the drawings in which similar numerals denote corresponding parts in all the views, the numeral 1 designates the casing or housing of our vending machine which is preferably of rectangular shape and of the proper size, and is provided at the upper corner with the opening 2 having the coin guide 2^x of the size of the proper coin and also having the wall 2' and slot 2^o in which the coin is placed and at the lower portion with the slot 3, through which the articles pass and are delivered and this may be called the delivery opening.

In the casing are erected the standards or uprights 4, having bearings 5, for the fixed shaft 6, of the magazine 7. This magazine consists of the sides 8, one of which is provided with ratchet teeth 9, and the magazine is formed with the series of pockets or chambers 10, which as shown are tapered outward toward the mouth or exit of the chambers and the purpose of this construction is to cause the articles to more readily pass from the magazine when the chamber is brought in line or opposite to the delivery slot, and to prevent the articles from falling out of the chamber we provide the curved shields 11 and 12, the latter having a handle 13 for moving the same away from the mouth of the chamber in order that the article can pass from the chamber down the guide 14, and through the delivery opening or slot.

The magazine is mounted in such manner that when one of the chambers has been emptied the magazine will move by reason of the action of spring 42, connected to side 8 and to the shaft and the pawl or detent 15, will engage and hold the magazine at each movement of the chamber so that the magazine cannot move more than the required and proper distance. This pawl is carried by the lever 16, fulcrumed on the post 17, and having at one end the small spring 18, which draws upward on the lever and causes the pawl to engage one tooth at each movement of the magazine and the other end of the lever is connected to the short lever 19, having the broad end 20, arranged under the chute 21, and when the coin passes from the chute it falls upon the broad end of the lever which action moves the said lever down and

this action tilts the long lever and moves the pawl away from the teeth of the magazine and the magazine moves one space and is held from further movement by the pawl engaging the next tooth. By this action it will be seen that the magazine cannot possibly move but one space as each coin acts upon the lever and thus it is sure to deliver the contents of only one chamber or pocket. The chute 21 is formed with the mouth or hopper 22, located under the discharge opening 23, of the channel or way 24, which is provided with another discharge opening 25 a short distance in advance of the opening 23, and the channel 24 communicates with the channel 26, having the coin receiving passage 27.

In the channel 26 is mounted the plate 28 having the barbs 29, the purpose of which is to enter the opening of a washer or other coin having an opening therein and tilt with the coin and discharge it through the opening 30 and prevent it from entering the chute 21, and an opening 31 is provided in advance of the tilting plate to receive a small coin and prevent it from entering said chute 21, and from this construction it will be seen that if a small coin or a coin having a hole therein is introduced to the machine it will be discharged from the channel before it can do any harm.

To prevent an improper coin from entering the chute 21 should it pass the tilting plate we provide the weighing devices 32 and 33 which are arranged in conjunction with the discharge openings 23 and 25 of the channel or way 24. These devices consist of the plate 34, arranged under the discharge openings, the threaded arm 35, having the adjusting weight 36, and the tube 37, having the movable weight or ball 38, and the device is mounted on the shaft 39, secured to the ears 40, which extend out from the channel. From this construction it will be seen that when the coin passes from the channel 26, it is deposited into the channel 24, and is guided thereby and passes over the plate 34 and if it is too heavy it will fall through the first discharge opening and from thence to the bottom of the casing and will not operate the machine. If the coin be of the proper weight it will pass upon the plate 34 of the second weighing device and this device having been adjusted to the proper weight will be tilted down by the coin and the coin will fall through the discharge opening and upon the broad end of the short lever pressing said lever down and moving the lever carrying the pawl and the pawl is thus disengaged from the tooth of the magazine and the magazine is moved one space and delivers the contents

of one chamber through the delivery opening. From this construction it will be understood that it is impossible to cheat or defraud the machine and also that the simplicity and thorough efficiency of the machine render the invention practical and useful.

We claim—

1. In a vending machine, the combination with a suitable casing, a rotary magazine arranged within said casing and having a series of pockets adapted to successively register with a delivery opening in the casing, and a coin guideway, of a lever fulcrumed within the casing and having at one end a pawl, adapted to engage with the teeth of a ratchet on the rotary magazine, and having its other end extending across the lower end of the coin guide way, and a spring for normally maintaining the pawl on said lever in engagement with the teeth of the ratchet, substantially as shown and described.

2. In a vending machine, the combination with a suitable casing, of a rotary magazine mounted on a fixed shaft within the casing, a coiled spring attached at one end to said magazine and at its other end to the shaft, means for normally holding the magazine against rotation, and a coin guide arranged to deliver coins to the magazine retaining devices, substantially as shown and described, for the purpose specified.

3. In a vending machine, the combination of a casing having a coin receiving opening and a delivery slot, a magazine rotatably mounted in the casing and having pockets adapted to register with the delivery slot, devices for normally retaining the magazine and releasing the same when operated upon by a proper coin, a coin guide leading to the retaining devices, and a pivoted plate having points adapted to enter an opening in a spurious coin and prevent it from operating upon the retaining devices.

4. In a vending machine, the combination with a rotary magazine, devices for retaining the same and releasing said magazine when operated upon by a coin, a coin guide or channel having a series of discharge openings, and the weighing devices in said channel, comprising the tilting plate or platform, the stem carrying the weight and the tube carrying the movable weight, all acting in the manner described.

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

JAMES ALLEN WESTBAY.

WILLIAM TANNER WESTBAY.

Witnesses:

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S. HARPER SMITH.