

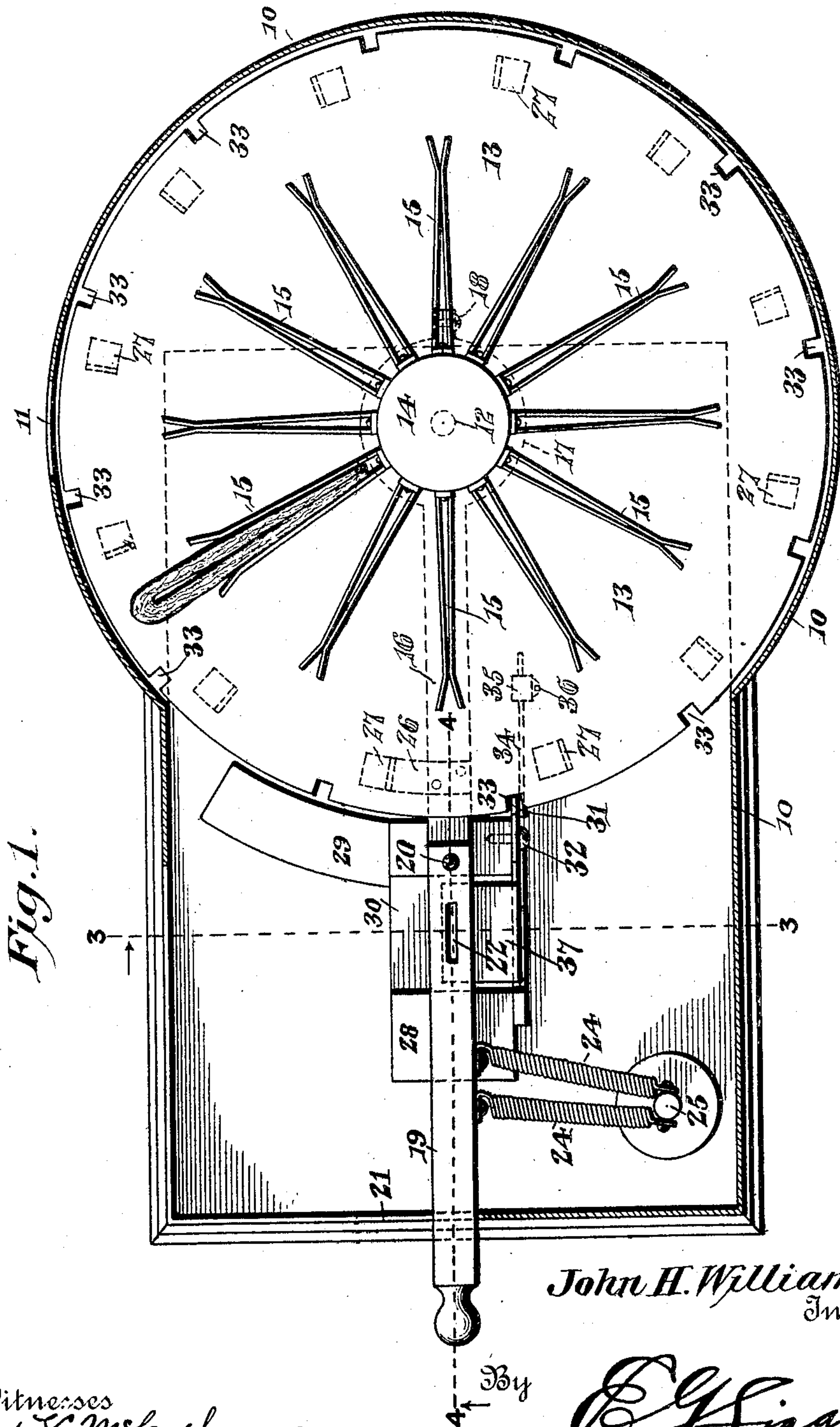
No. 804,079.

PATENTED NOV. 7, 1905.

J. H. WILLIAMS.
CHECK CONTROLLED APPARATUS.

APPLICATION FILED DEC. 8, 1903.

3 SHEETS—SHEET 1.



John H. Williams,
Inventor

Witnesses
Jas. E. McEachran
B. L. Foster

E. G. Siggers
Attorney

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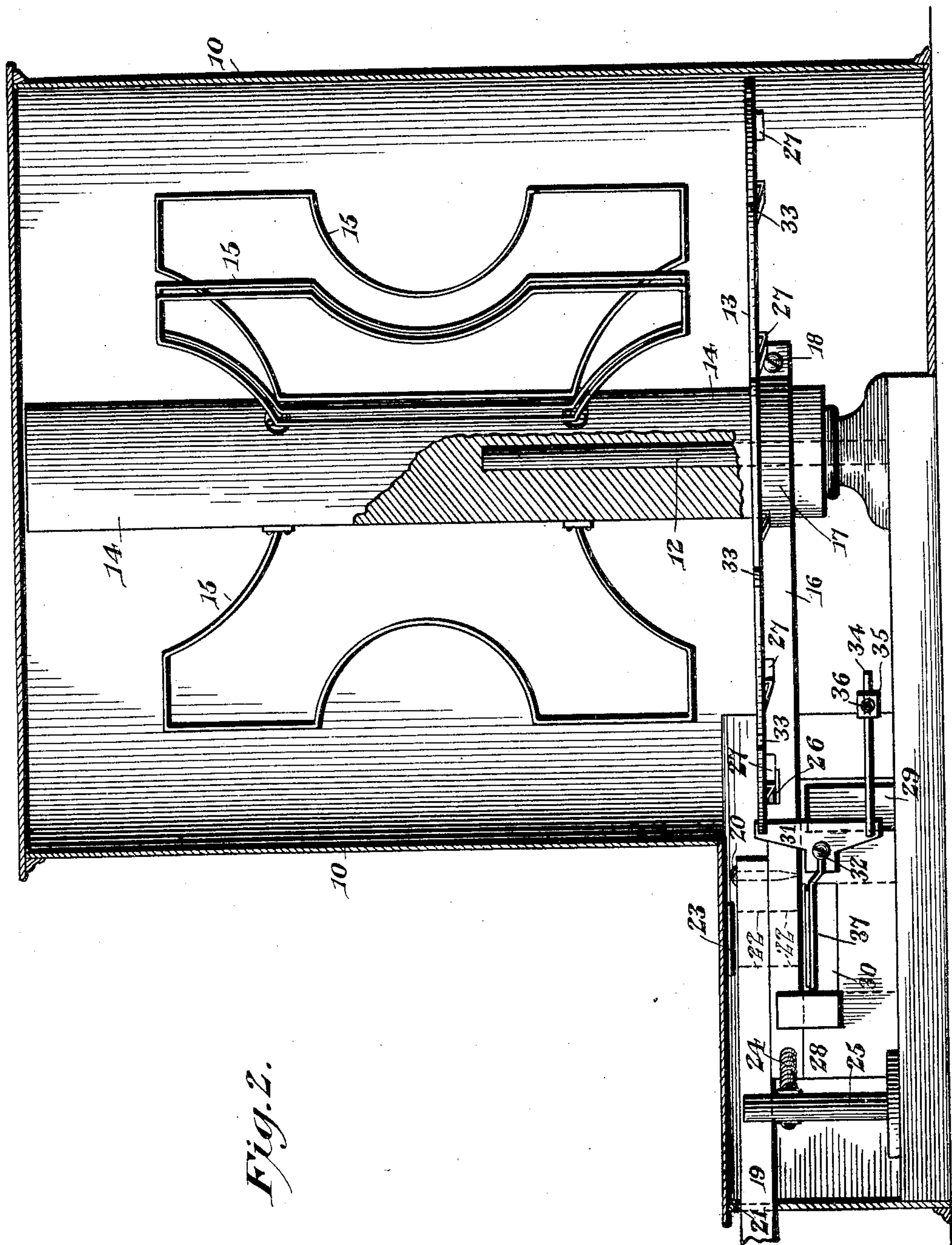


Fig. 2.

John H. Williams, Inventor

By

E. J. Siggers

Attorney

Witnesses
Jas. E. McEachran
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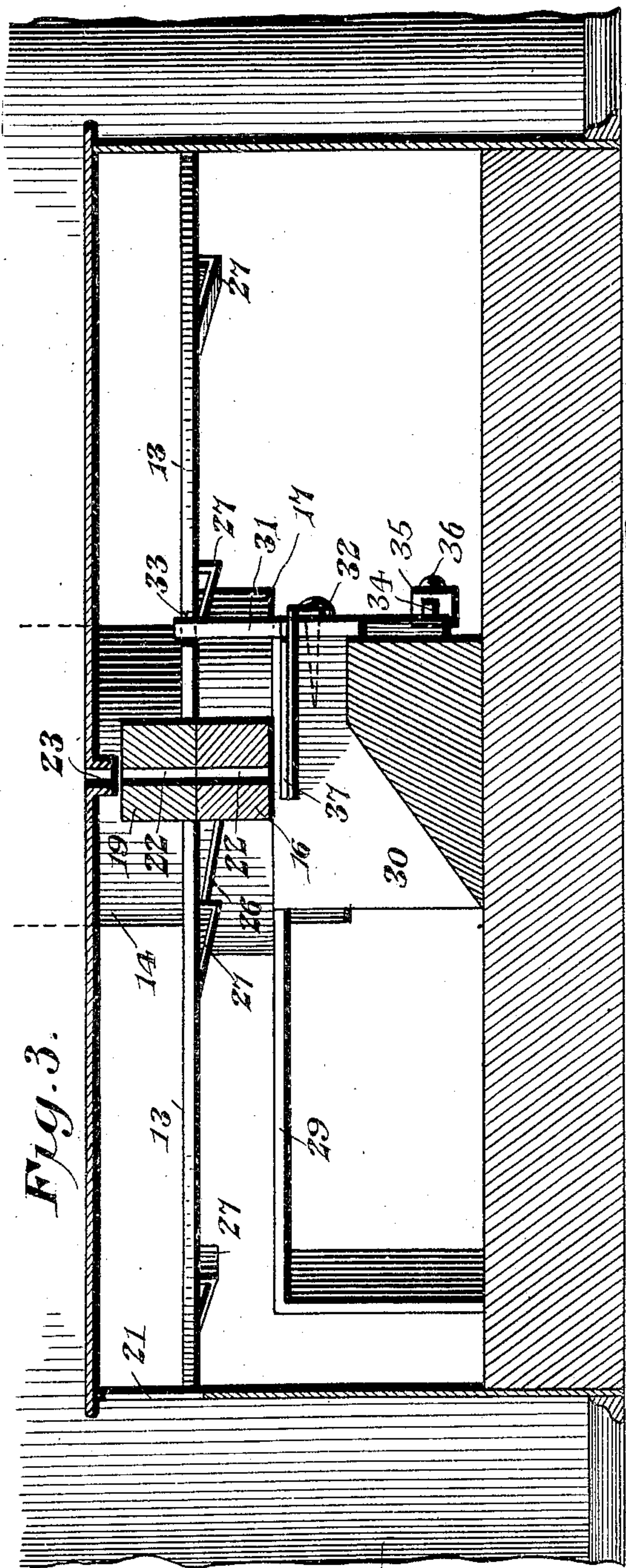


Fig. 3.

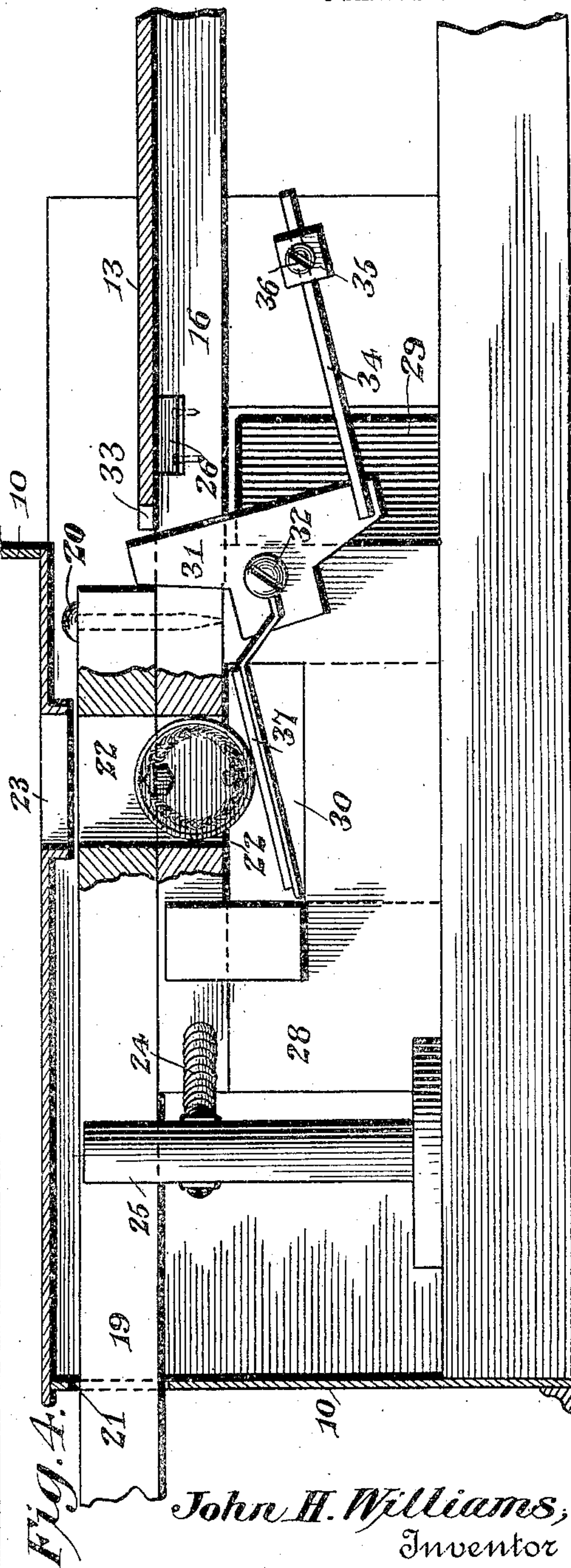


Fig. 4.

John H. Williams,
Inventor

Witnesses
Jack E. McLaughlin
B. G. Foster

By

B. G. Foster

Attorney

UNITED STATES PATENT OFFICE.

JOHN H. WILLIAMS, OF ALBION, NEW YORK.

CHECK-CONTROLLED APPARATUS.

No. 804,079.

Specification of Letters Patent.

Patented Nov. 7, 1905.

Application filed December 8, 1903. Serial No. 184,334.

To all whom it may concern:

Be it known that I, JOHN H. WILLIAMS, a citizen of the United States, residing at Albion, in the county of Orleans and State of New York, have invented a new and useful Check-Controlled Apparatus, of which the following is a specification.

This invention relates to that class of vending-machines popularly designated "coin-controlled apparatus" and operable to deliver an article to a purchaser upon the insertion into the apparatus of a coin of the proper value.

The object is to provide simple mechanism of this character for vending newspapers or other merchandise and to so construct the same that while it is easily operable upon the insertion of the proper coin it is securely locked against operation under ordinary conditions. At the same time the exposed portion of the operating means is freely movable, so that the structure cannot be wrenched, strained, or injured by a malicious or mischievous person.

An embodiment of the invention and one that is at present considered preferable is illustrated in the accompanying drawings, wherein—

Figure 1 is a horizontal sectional view through the casing of the machine, showing a plan view of the vending device and operating mechanism therefor. Fig. 2 is a vertical sectional view through the machine. Fig. 3 is a sectional view taken on the line 3 3 of Fig. 1. Fig. 4 is a sectional view taken on the line 4 4 of Fig. 1.

Similar reference-numerals indicate corresponding parts in all the figures of the drawings.

In the embodiment illustrated a suitable casing 10 is employed, which completely houses the vending device and operating mechanism therefor. A portion of the casing is cylindrical in form and is provided on one side with an aperture 11. Within the cylindrical portion is mounted the vending device. The same comprises an upright standard 12, upon the lower portion of which is rotatably mounted a circular horizontally-disposed disk 13. This disk supports and has secured thereto a stem 14, which is also rotatable upon the standard 12 and carries a radially-disposed series of sets of coacting clips 15, preferably formed of wire and of the shape illustrated clearly in Fig. 2. The clips of each set are arranged to embrace a news-

paper or other article to be vended, as illustrated in Fig. 1, and said sets are movable successively into alinement with the aperture 11, through which the articles can be removed from the machine. The particular form and construction of the clips is not of great importance and may be varied as desired to suit the articles held thereby.

The operating mechanism is constructed as follows: A lever is employed comprising an actuating-section 16, journaled upon the lower portion of the stem 14 and freely revolvable with respect thereto. Consequently the axis of movement of this section is coincident with the axis of rotation of the vending device. In order to obtain the pivotal connection, the inner end of the section is preferably in the form of a split ring 17, the free ends of which are secured together by a bolt or screw 18. The outer end of the section 16 projects toward the casing, and to said end is pivotally attached a handle-section 19, the pivotal connection being shown at 20. The handle-section projects through a slot 21, formed in the side of the casing. The sections 16 and 19 are provided contiguous to the pivot 20 with aligned slots 22, constituting a coin-receiving pocket having an open bottom and normally alined with a suitable coin-chute 23, by means of which a coin introduced through the casing will be directed into said pocket. The lever-sections are normally held in alinement with the lower end of this coin-chute by springs 24, each secured at one end to one of the sections and having their other ends fastened to a post 25, located within the casing. The actuating-section 16 is provided with a spring-tooth 26, located beneath the disk 13 and arranged to engage behind depending projections or teeth 27, carried by the under side of the disk. Said projections, as will be seen by reference to Figs. 2 and 3, have their front faces at right angles to the disk, while their rear faces are inclined. Thus the tooth 26 will freely ride over the projections during the rearward movement of the lever and will engage against the front faces of said projections, and consequently move the disk and vending device. When the lever is in its rearmost position, it is arranged upon a supporting-block 28, located within the lower portion of the casing, and during its forward movement it is supported by a curved track 29, extending from said block, the portion of the block 28 below the coin-receiving pocket 22 being cut away

and preferably beveled, as shown at 30. For the purpose of normally holding the vending device against movement a lock is employed comprising a latch 31, pivoted, as shown at 32, to the side of the block 28 and, having its upper end arranged to engage successively in notches 33, formed in the periphery of the disk 13. The latch 31 has at its lower end an inwardly-extending arm 34, upon which is slidably mounted a weight 35, that can be held against movement by means of a set-screw 36. The latch also is provided with an outwardly-extending pallet 37, that is located in the cut-away portion 30 of the block 28 and is normally located beneath the open bottom of the coin-receiving pocket 22. With this description of the mechanism it is believed that the operation of the same can be readily understood. When a coin of the proper value has been inserted through the chute 23, it will pass into the pocket 22 and rest upon the pallet 37. This will cause the depression of the pallet, and consequently the latch will be disengaged from the notch, and the vending device will therefore be unlocked. At the same time it will be observed by reference to Fig. 4 that the coin will be located partly in the slot of each lever-section, and said sections will thus be held against relative movement. At the same time the spring-finger 26 will be disposed in rear of one of the depending projections or teeth 27 of the disk. Therefore if the handle is now operated the lever will cause a partial revolution of the disk and bring one of the sets of clips, with the article held therebetween, into alinement with the aperture 11, whereupon such article can be grasped and withdrawn from the casing. Upon releasing the handle the lateral pressure upon the coin is released, and said coin will drop from the pocket into the lower portion of the casing, the springs 24 causing the lever to assume its normal position. Upon the movement of the lever to turn the vending device the coin will be carried from the pallet 37, and the weight reacting upon the lock will swing the latch 31 against the periphery of the disk, so that when the next notch comes into alinement with said latch it will be engaged thereby and the device held against further movement. If it is desired to place articles of a different value in the vending device, it is only necessary to change the relation of the weight 35 upon the arm 34, so that it will require a coin of a greater or less weight to operate the lock. It will be apparent by reference to the accompanying drawings that the machine is extremely simple and that when a coin has been placed therein it is easily operable. Under normal conditions, however, the vending device is securely locked against movement, while the exposed handle is freely movable. This movement, however, only swings the handle into the casing, and no

wrench or strain can be applied to the mechanism by a malicious person.

From the foregoing it is thought that the construction, operation, and many advantages of the herein-described invention will be apparent to those skilled in the art without further description, and it will be understood that various changes in the size, shape, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In check-controlled apparatus, the combination with a vending device, of a lever for moving the same comprising an inner swinging section, and another section pivoted upon the free portion of the inner section and movable with respect thereto, said sections having check-holding means, which, when a check is inserted therein, holds said sections against relative movement.

2. In check-controlled apparatus, the combination with a rotatable article-vending device, of a lever for moving the same comprising an inner swinging section having a ratchet connection with the vending device, and a handle-section pivoted upon the free portion of the inner section and movable with respect thereto, said sections having check-holding means, which, when a check is inserted therein, holds said sections against relative movement.

3. In check-controlled apparatus, the combination with a rotatable vending device, of a lever comprising an actuating-section having its axis substantially coincident with the axis of the vending-machine, and a handle-section pivoted upon the free end of the actuating-section, said sections being provided with alined slots which constitute a check-receiving pocket.

4. In check-controlled apparatus, the combination with an upright standard, of an article-vending device rotatably mounted upon the upper portion of the standard, a lever comprising an actuating-section pivoted upon the lower portion of the standard beneath the vending device, and a handle-section pivoted at its inner end upon the outer portion of the lever, said sections having alined slots arranged contiguous to the pivot of the sections and constituting a check-receiving pocket.

5. In check-controlled apparatus, the combination with a movable vending device, of an operating device therefor comprising relatively movable sections movable in one direction independently of the vending device, said operating device having a coin-receiver located partially in each section, and a coin-actuated lock for the vending device having a coin-supporting portion located beneath

the coin-receiver and arranged to support a coin therein in engagement with both sections of the operating device to prevent their relative movement.

5 6. In check-controlled apparatus, the combination with a rotatable vending device, of a pivoted operating-lever therefor movable independently of the vending device in one direction and comprising pivotally-connect-
10 ed sections having a check-receiving pocket that extends through both sections, and a lock engaging the vending device and having a check-support disposed beneath the pocket of the lever and arranged to support a check
15 with portions thereof in engagement with both sections of said lever to prevent the relative movement of the same.

7. In check-controlled apparatus, the combination with a vending device including a
20 circular disk having outstanding projections, of a lever successively engaging the projections and having a movement in one direction independently of the vending device comprising an actuating-section having its
25 pivot-axis substantially coincident with the axis of the vending device, a handle-section pivoted to the actuating-section, said sections being provided with aligned slots constituting an open-bottomed check-receiving
30 pocket, and a check-controlled lock for the vending device having a pallet located beneath the check-receiving pocket and arranged to support a check in said pocket and in the slots of both sections.

35 8. In check-controlled apparatus, the combination with a rotatable vending device having peripheral notches, of means for rotating the vending device, a check-controlled lock for normally holding the vending device
40 against movement, said lock comprising an upright latch pivoted between its ends, the upper portion of the latch being arranged to engage in the notches of the vending device, and outstanding arms carried by the lower

end of the device beneath the pivot, a weight 45 adjustably attached to the arm, and a coin-supporting pallet projecting from the side of the latch opposite the weight and connected to said latch contiguous to its pivot.

9. In check-controlled apparatus, the com- 50 bination with a rotatable vending device including a circular disk having peripheral notches and outstanding projections, of a lever successively engaging the projections comprising an actuating-section having its 55 pivot-axis substantially coincident with the axis of the vending device, and a handle-section pivoted to the actuating-section, said sections being provided with aligned slots constituting an open-bottomed check-receiving 60 pocket, and a pivoted lock comprising a latch portion that engages successively in the peripheral notches of the disk, and a check-supporting pallet located beneath the check-receiving pocket. 65

10. In check-controlled apparatus, the combination with an article-vending device, of a lever for moving the same comprising an inner swinging section and another section 70 pivoted upon the free portion of the inner section and movable with respect thereto, said sections having a check-holding pocket provided with an open bottom, and a movable lock for holding the article-vending device against movement, said lock including a 75 supporting element located beneath the open bottom of the pocket and arranged to be moved by a check placed in the pocket, said element supporting such check in engagement with both sections to prevent their 80 relative movement.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JOHN H. WILLIAMS.

Witnesses:

IRVING M. THOMPSON,
JOHN B. LEE.