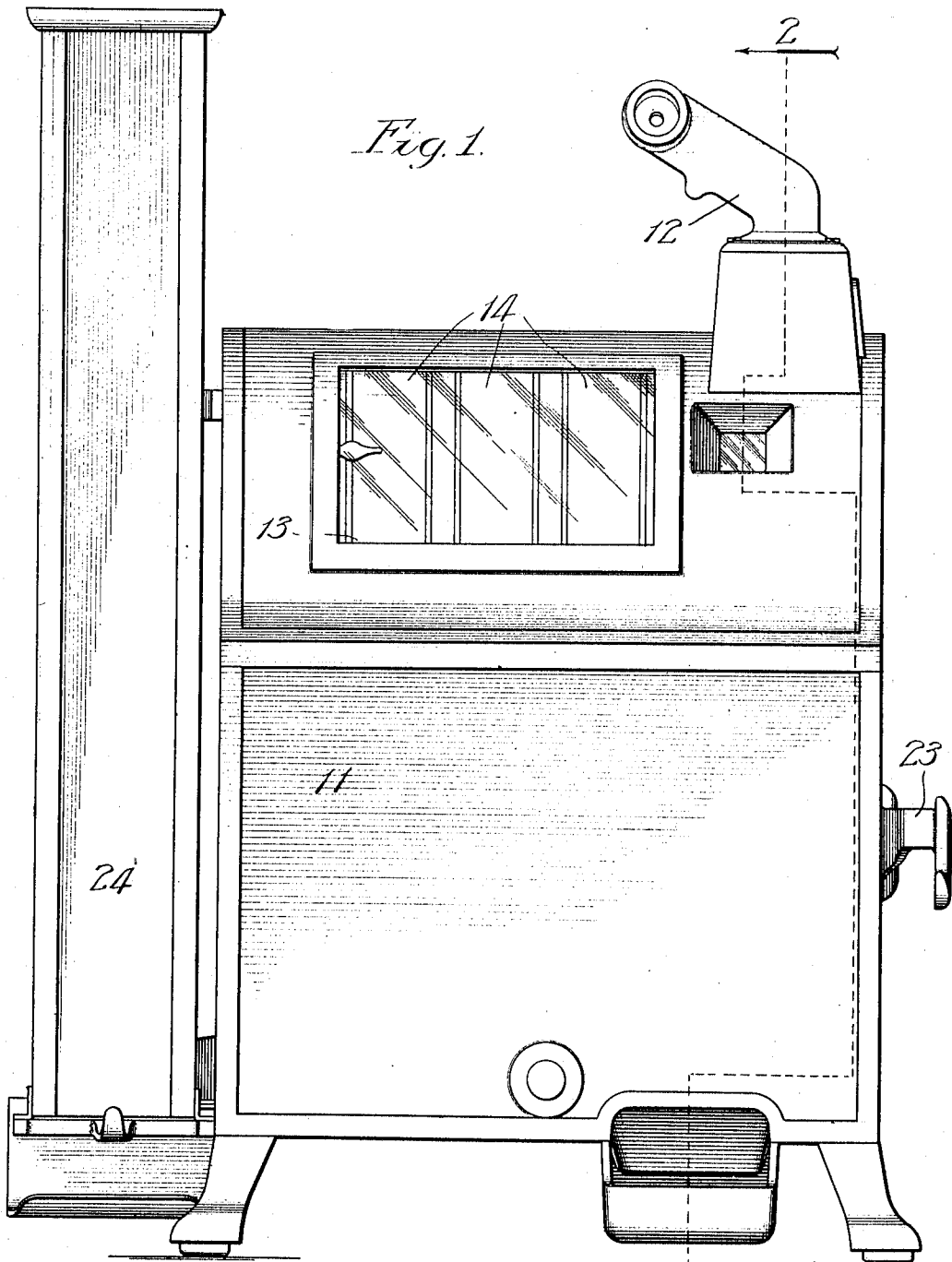


C. G. HASSMANN.
 COIN CONTROLLED MACHINE.
 APPLICATION FILED JAN. 12, 1911.

988,570.

Patented Apr. 4, 1911.

4 SHEETS-SHEET 1.



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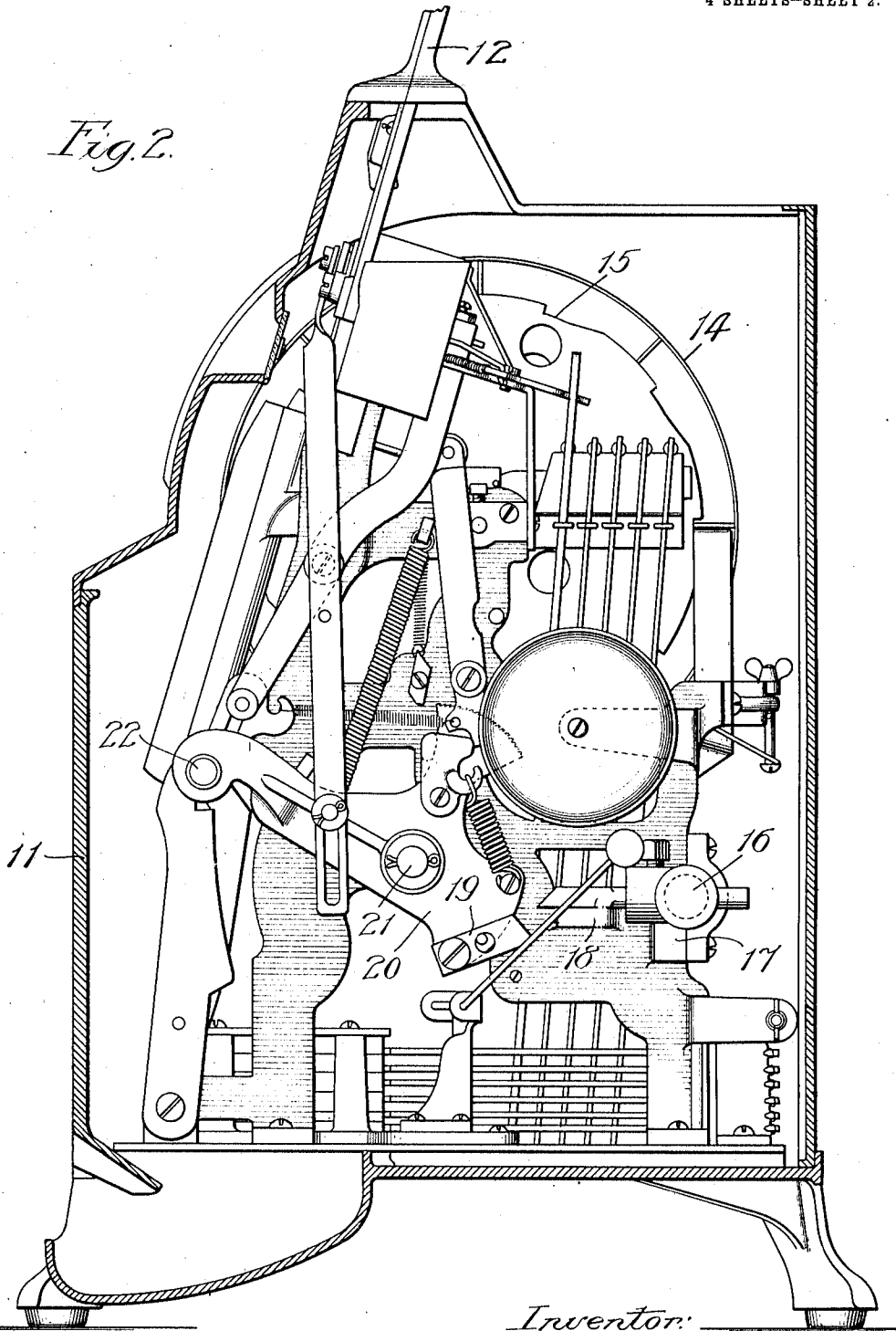
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4 SHEETS—SHEET 2.

Fig. 2.



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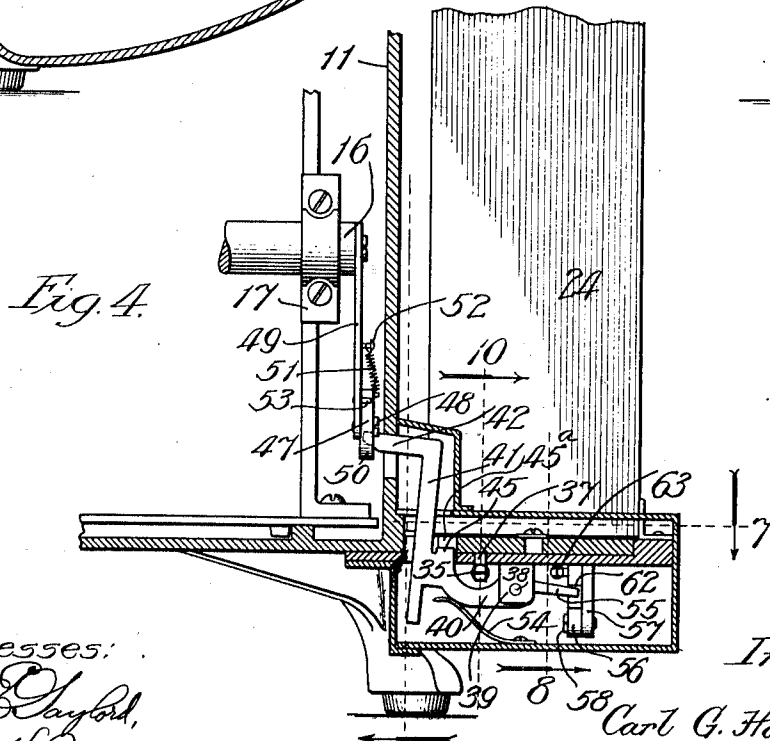
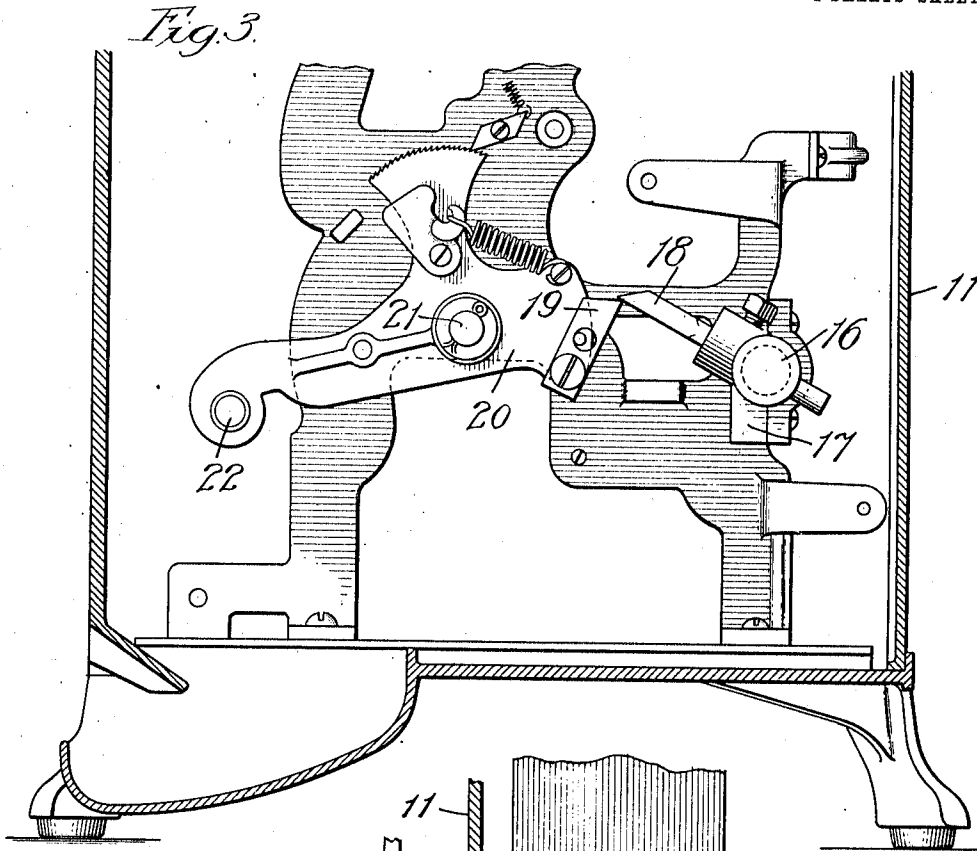
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4 SHEETS—SHEET 3.



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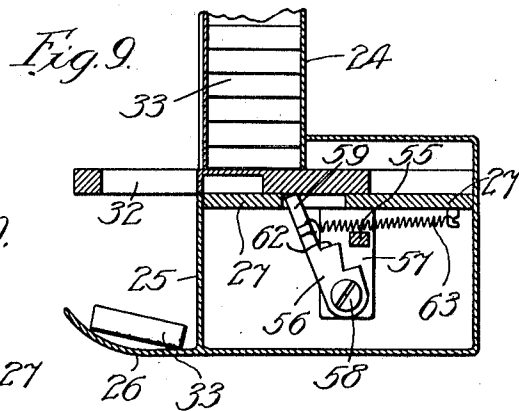
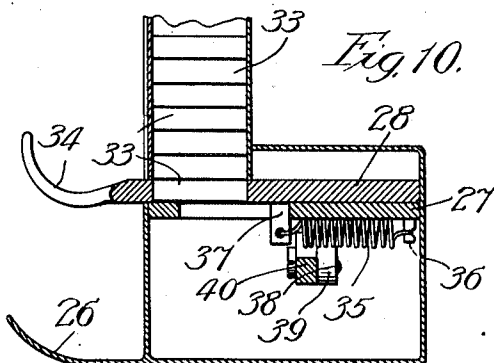
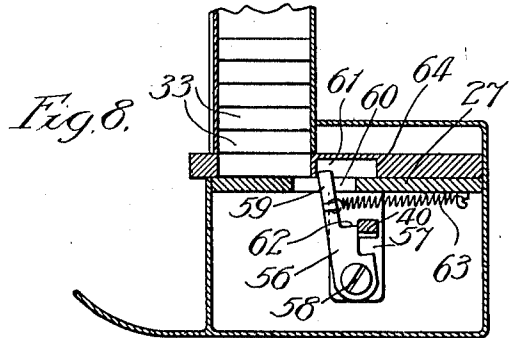
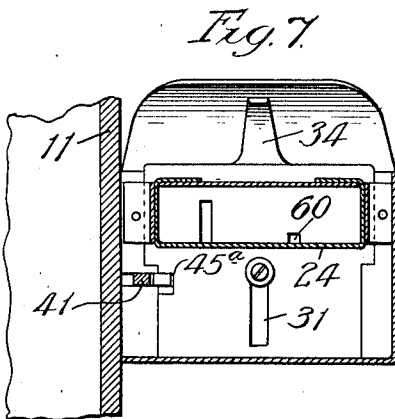
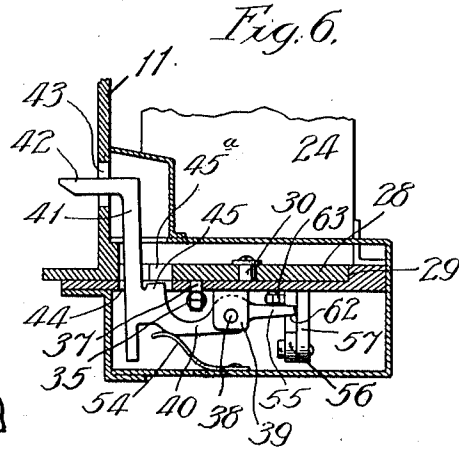
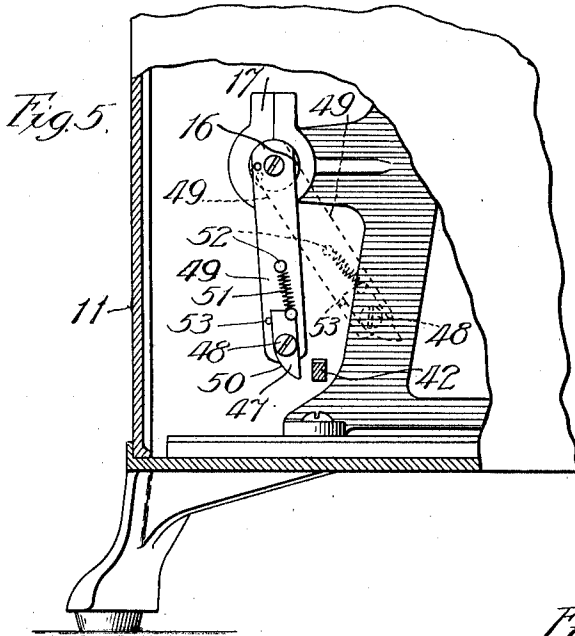
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C. G. HASSMANN.
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APPLICATION FILED JAN. 12, 1911.

988,570.

Patented Apr. 4, 1911.

4 SHEETS—SHEET 4.



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UNITED STATES PATENT OFFICE.

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COIN-CONTROLLED MACHINE.

988,570.

Specification of Letters Patent.

Patented Apr. 4, 1911.

Application filed January 12, 1911. Serial No. 602,206.

To all whom it may concern:

Be it known that I, CARL G. HASSMANN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Coin-Controlled Machines, of which the following is a specification.

My invention relates to improvements in coin-controlled vending machines for use, more particularly, in connection with mechanism employing a plurality of rotatably mounted legend-displaying wheels, or the like, which are adapted to be driven by actuating the machine, and when they come to rest display a combination of legends, as for the purpose of telling fortunes, such types of machines being well known in the art.

My object is to provide a simple construction of vending mechanism which will be effective for controlling the releasing of the articles to be vended from the machine when the latter is operated, and which will be particularly adapted for use in connection with legend-displaying machines, whereby the operation of the machine for displaying a combination of legends concurrently releases a predetermined number of the articles to be vended.

My invention is illustrated in the accompanying drawings, in which—

Figure 1 is a view in front elevation of a combined fortune-telling and vending machine constructed in accordance with my invention. Fig. 2 is a section taken at the line 2 on Fig. 1 and viewed in the direction of the arrow, showing the mechanism of the machine in elevation and in the position it assumes when the machine is in normal condition. Fig. 3 is an enlarged broken view like that of Fig. 2 of a portion of the mechanism illustrated in the last referred to figure, showing the parts illustrated in the positions they assume when the actuating lever has neared the limit of its movement for tripping the mechanism for driving the legend-displaying wheels. Fig. 4 is a broken, enlarged sectional view, in rear elevation, of the article-vending mechanism and the means for operating it from the main-shaft of the mechanism illustrated in Fig. 2, the parts of the article-vending machine being illustrated in normal locked condition. Fig. 5 is a section taken at the line 5 on Fig. 4 and viewed in the direction

of the arrow, showing by full lines the parts in normal position, and by dotted lines the position assumed by the trip-arm carried by the main-shaft for operating the vending mechanism, when the mechanism illustrated in Fig. 3 is operated to the position therein shown. Fig. 6 is a view, like Fig. 4, of the vending mechanism therein shown, the parts being illustrated in the positions they assume when operated by the trip-arm of Fig. 5 for unlocking the slide which delivers the articles from the magazine containing the articles to be vended. Fig. 7 is a section taken at the line 7 on Fig. 4 and viewed in the direction of the arrow. Fig. 8 is a section taken at the line 8 on Fig. 4 and viewed in the direction of the arrow. Fig. 9 is a view like Fig. 8 of the mechanism therein shown, the parts illustrated being shown in the positions they assume when the article-delivering slide has moved to delivery position; and Fig. 10, a section taken at the line 10 on Fig. 4 and viewed in the direction of the arrow.

As the mechanism of the fortune-telling machine in connection with which I have chosen to illustrate my invention, is of well-known construction, a general illustration and description thereof is deemed sufficient.

The casing for the fortune-telling mechanism is illustrated at 11 and is shown as equipped with a coin-chute 12 for receiving the coins through the medium of which the machine is operated. The wheels on which the legendary matter (not shown) is carried, to be exposed to view through an opening in the casing 11 when they come to rest, as is usual in fortune-telling machines, are represented at 14, and are separately rotatably mounted to permit them to rotate independently of each other. The wheels are driven by means of a spring-controlled shouldered arm (not shown) which is adapted to engage with notches 15 on the wheels when this arm is moved to raised position by the rocking of a shaft 16 to the right in Fig. 2, this shaft being journaled in bearings in the frame 17 of the machine. The shaft 16 carries an arm 18 which extends into the path of upward movement of a finger 19 supported on a spring-returnable rock-member fulcrumed on a stub-shaft 21 secured in the casing 11, the member 20 carrying a lug 22 which extends into the path of movement

of an operating lever 23 fulcrumed on the casing 11, whereby when the lever 23 is swung down, assuming a coin to have been introduced into the chute 12, the member 20 is swung upon its fulcrum to the left in Fig. 2, thereby raising the finger 19 which engages the arm 18 and rocks the spring-controlled shaft 16 to the right in Fig. 2, the finger 19 in the final movement of the member 20 disengaging from the arm 18 and permitting the shaft 16 to return to the normal position illustrated in Fig. 2 under the action of its controlling spring. Rocking of the shaft 16 as described causes the wheel-driving arm to rise and engage with notches 15 in the wheels 14, and when the finger 19 disengages from the arm 20 the spring controlling the shaft 16 causes the wheel-driving arm to descend and rapidly rotate the wheels, the latter being arrested successively in their movement by mechanism (not shown) but which is well-known in the art and forms no part of my present invention.

Located at the side of the casing 11 and supported thereon is a magazine 24 shown in a form suitable for receiving packages of gum to be vended, and positioned below the magazine is a casing 25 provided with an article-receiving shelf 26 for receiving the packages of gum as they are discharged from the magazine, as hereinafter described. The top of the casing 25 is closed by a plate 27 which forms a support for a slide 28, which slides in a recess 29 in this plate and is guided and restricted in movement by a lug 30 carried by the plate 27 and extending through a slot 31 in the slide. The slide contains an opening 32 of substantially the same size as one of the packages 33 of gum to be vended, this opening registering with the lower open end of the magazine 24 and receiving one of the packages 33 when the slide is in the normal closed position represented in Fig. 10. The slide 28 is provided with a hook 34 which permits it to be readily moved to a position for discharging the package contained in its opening 32 when the slide-locking mechanism, hereinafter described, is operated to release the slide, a coiled spring 35 connected at its opposite ends to depending lugs 36 and 37 on the plate 27 and slide 28, respectively, serving to automatically return the slide to normal position after the operator releases his grasp on it.

Fulcrumed as indicated at 38 to a depending lug 39 on the plate 27, is a lever 40 provided with an upwardly-extending arm 41 of angle-shape which extends, at its outer end 42, through a vertically extending slot 43 in the casing 11, and at an intermediate portion through a slot 44 in a plate 27. A lug 45 carried by the lever 40 extends through the slot 44 in the plate 27 and co-operates with the wall of a recess 45^a in the

slide 28 into which this lug extends when the slide-locking mechanism is in normal condition (Fig. 7).

The end 42 of the arm 41 extends into the path of a trip-finger 47 pivoted as indicated at 48 to the lower end of an arm 49 fixed on the end of the shaft 16 opposite to that carrying the arm 18. The finger 47, which is provided with a cam-surface 50, is connected with one end of a coiled spring 51 secured at its opposite end to a pin 52 on the arm 49, this spring serving to hold the finger 47 yieldingly in engagement at its upper end with a stop-pin 53 as shown in Fig. 5, but permit the finger 47 to swing on its pivot to the right in this figure against the tension of the spring 51.

In the normal position of the mechanism illustrated in Fig. 4, the end 42 of the lever 40, under the action of a spring 54 bearing against it, abuts against the upper wall of the slot 43, the lug 45 extends into the recess 45^a in the slide 28 and the short end 55 of the lever 40 extends into the path of movement of a stop-device 56 pivoted to a lug 57 on the plate 27 as indicated at 58. The stop-device 56 extends at its upper end, indicated at 59, through a slot 60 in the plate 27 and into a recess 61 in the under side of the slide 28, and is provided with a shoulder 62 which opposes the section 55 of the lever 40, a coiled spring 63 fastened to the plate 27 and device 56 tending to swing the latter to the right in Fig. 8.

Assuming the parts of the machine to be in the normal position, the operation of the lever 23 after a coin has been introduced into the chute 12 rocks the shaft 16 to the right in Fig. 2, causes the wheel-actuating arm to be raised to position for operating the wheels 14 when the finger 19 disengages from the arm 18, and swings the arm 49 to the right in Fig. 5 to the position illustrated by dotted lines therein, the trip 47 in this operation riding upon the end 42 of the lever 40 and swinging on its pivot 48 against the action of the spring 51. As soon as the arm 18 disengages with the finger 19, which occurs immediately before the lever 23 reaches the limit of its downward movement, the shaft 16 rotates to the left in Fig. 2 to normal position, under the influence of its controlling spring, with the result of causing the wheels 14 to be driven rapidly to the left in Fig. 2, and swinging the arm 49 to the left in Fig. 5. As the arm 49 moves from the position represented by dotted lines in Fig. 5 to the position represented by full lines therein, the trip-device 47 rides at its cam-surface 50 upon the end 42 of the lever 40, with the result of rocking the latter on its fulcrum 38 against the action of the spring 54 and depressing the lug 45 below the plane of the slide 28, as illustrated in Fig. 6. Rocking of the lever 40 as described causes its sec-

tion 55 to be carried above the shoulder 62, as shown in Fig. 6, thereby permitting this shoulder to be projected, under the action of the spring 63, beneath and into the path of movement of the lever 40. Thus operating the slide-controlling mechanism unlocks the slide 28 and permits it to be moved against the action of the spring 35, to the discharging position illustrated in Fig. 9, in which the package 33 of gum, separated from the column thereof in the magazine, drops upon the shelf 26. During the movement of the slide 28 to discharging position, the rear-wall, indicated at 64, of the opening 61 is moved against the end 59 of the trip-device 56 and swings the latter to the position illustrated in Fig. 9, thereby withdrawing the shoulder 62 from beneath the section 55 of the lever 40, which permits the latter to be depressed below the plane of the shoulder 62 under the action of the spring 54, the lug 45 in the return movement of the slide 28 bearing against the bottom surface of the latter until the recess 45^a in the slide registers with the lug 45, whereupon the latter enters the recess 45^a, the trip 56 in this operation returning, under the action of the spring 63, to normal position (Fig. 8). As soon as the slide 28 returns to normal position, the lowermost package 33 in the magazine 24 drops into the opening 32 in this slide, and the vending mechanism is again in condition to be operated by the rocking of the shaft 16 as described.

It will be manifest from the foregoing description that the slide 28 is locked against movement until the lever 40 has been rocked to the position illustrated in Fig. 6; and that as soon as the slide is withdrawn sufficiently far to release a package of gum the device 56 has been swung to a position in which its shoulder 62 is withdrawn from the path of movement of the section 55 of the lever 40, which prevents operation of the slide 28 excepting after it has been preliminarily set by operating the shaft 16 as described.

While I have illustrated and described a particular embodiment of my invention, I do not wish to be understood as intending to limit it to the embodiment illustrated, as various changes and modifications can be made therefrom without departing from the spirit of my invention.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination with a rock-shaft and means for rocking it, of a magazine for receiving the articles to be vended, a slide for discharging the articles from the magazine, means normally locking said slide against movement, and means operated by said shaft for actuating said slide-locking means to unlock said slide.

2. The combination with a rock-shaft and

means for rocking it, of a magazine for receiving the articles to be vended, a slide for discharging the articles from the magazine, a pivotally supported member equipped with means for releasably locking said slide against movement, means operated by said shaft for rocking said member to unlock the slide, and means for releasably holding said member in position for releasing the slide until after the latter has been moved from normal position.

3. The combination with a rock-shaft and means for rocking it, of a magazine for receiving the articles to be vended, a slide for discharging the articles from the magazine, a pivotally supported member equipped with means for releasably locking said slide against movement, means operated by said shaft for rocking said member to unlock the slide, a spring-controlled device cooperating with said rock-member for releasably holding the latter in position for releasing the slide, and means operated by the slide for actuating said device to release said rock-member.

4. The combination with a rock-shaft and means for rocking it, of a magazine for receiving the articles to be vended, a slide for discharging the articles from the magazine, a pivotally supported member equipped with means for releasably locking said slide against movement, means tending to maintain said member in position for locking said slide, means operated by said shaft for rocking said member to unlock the slide, and means for releasably holding said member in position for unlocking the slide until the latter has been moved from normal position.

5. The combination with a rock-shaft and means for rocking it, of a magazine for receiving the articles to be vended, a slide for discharging the articles from the magazine, a pivotally supported member equipped with means for releasably locking said slide against movement, means tending to maintain said member in position for locking said slide, means operated by said shaft for rocking said member to unlock the slide, a spring-controlled device cooperating with said rock-member for releasably holding the latter in position for releasing the slide, and means operated by the slide for actuating said device to release said rock-member.

6. The combination with a rock-shaft and means for rocking it, of a magazine for receiving the articles to be vended, a slide for discharging the articles from the magazine, a pivotally supported member equipped with means for releasably locking said slide against movement, means operated by said shaft for rocking said member to unlock the slide, a shiftable device provided with a shoulder adapted to cooperate with said rock-member, means tending to move said shiftable device to a position in which its

shoulder extends into the path of movement of said rock-member for releasably holding the latter in position for releasing the slide, and means operated by the slide for disengaging said shoulder from said rock-member after the slide has been moved from normal position.

7. The combination with a rock-shaft and means for rocking it, of a magazine for receiving the articles to be vended, a slide for discharging the articles from the magazine, a pivotally supported member equipped with means for releasably locking said slide against movement, means operated by said shaft for rocking said member to unlock the slide, a pivotally supported member provided with a shoulder adapted to cooperate with said rock-member, means tending to rock said last-named pivoted member to a position in which its shoulder extends into the path of movement of said rock-member for releasably holding the latter in a position for releasing the slide, and means operated by the slide for disengaging said shoulder from said rock-member after the slide has been moved from normal position.

8. The combination with a rock-shaft and means for rocking it, of a magazine for receiving the articles to be vended, a slide for discharging the articles from the magazine provided with a downwardly-opening recess, a pivotally supported member equipped with means for releasably locking said slide against movement, means tending to hold said rock-member in position for locking the slide, means operated by said shaft for rocking said member to unlock the slide, a pivotally supported member provided with a shoulder adapted to cooperate with said rock-member and extend into the path of movement thereof when the latter is actuated by said shaft, and means tending to move said last-named member into position for engaging at its shoulder with said rock-member, said pivotally supported member extending into the recess in said slide whereby when the slide is moved from normal position said shoulder is moved out of the path of movement of said rock-member, for the purpose set forth.

9. The combination with a rock-shaft and means for rocking it, of a magazine for receiving the articles to be vended, a slide for discharging the articles from the magazine formed with shouldered portions, a pivotally supported member provided with means cooperating with one of the shouldered portions of the slide for locking the latter against movement, means tending to maintain said member in position for locking the slide, means operated by said rock-shaft for rocking said member to release the slide, a pivotally supported trip-device provided with a shoulder, and means tending to move said shoulder into the path of movement of said first-named member, said trip-device extending into engagement with the other of the said shouldered portions of the slide for permitting said first-named member to return to normal locking position after the slide has been moved from normal position.

10. The combination with a rock-shaft and means for rocking it in opposite directions, of a magazine for receiving the articles to be vended, a slide for discharging the articles from the magazine, means normally locking said slide against movement, and a shiftable device carried by said shaft and constructed and arranged to operate said slide-locking means for unlocking the slide upon each alternate rocking movement of said shaft.

11. The combination with a rock-shaft and means for rocking it in opposite directions, of a magazine for receiving the articles to be vended, a slide for discharging the articles from the magazine, means normally locking said slide against movement, a pivoted device supported from said shaft and into the path of which said slide-locking means extend when in normal position, and means operating to permit said pivoted device to swing with said shaft in one direction without operating said means, and to operate said means when swinging in the opposite direction.

CARL G. HASSMANN.

In presence of—

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