

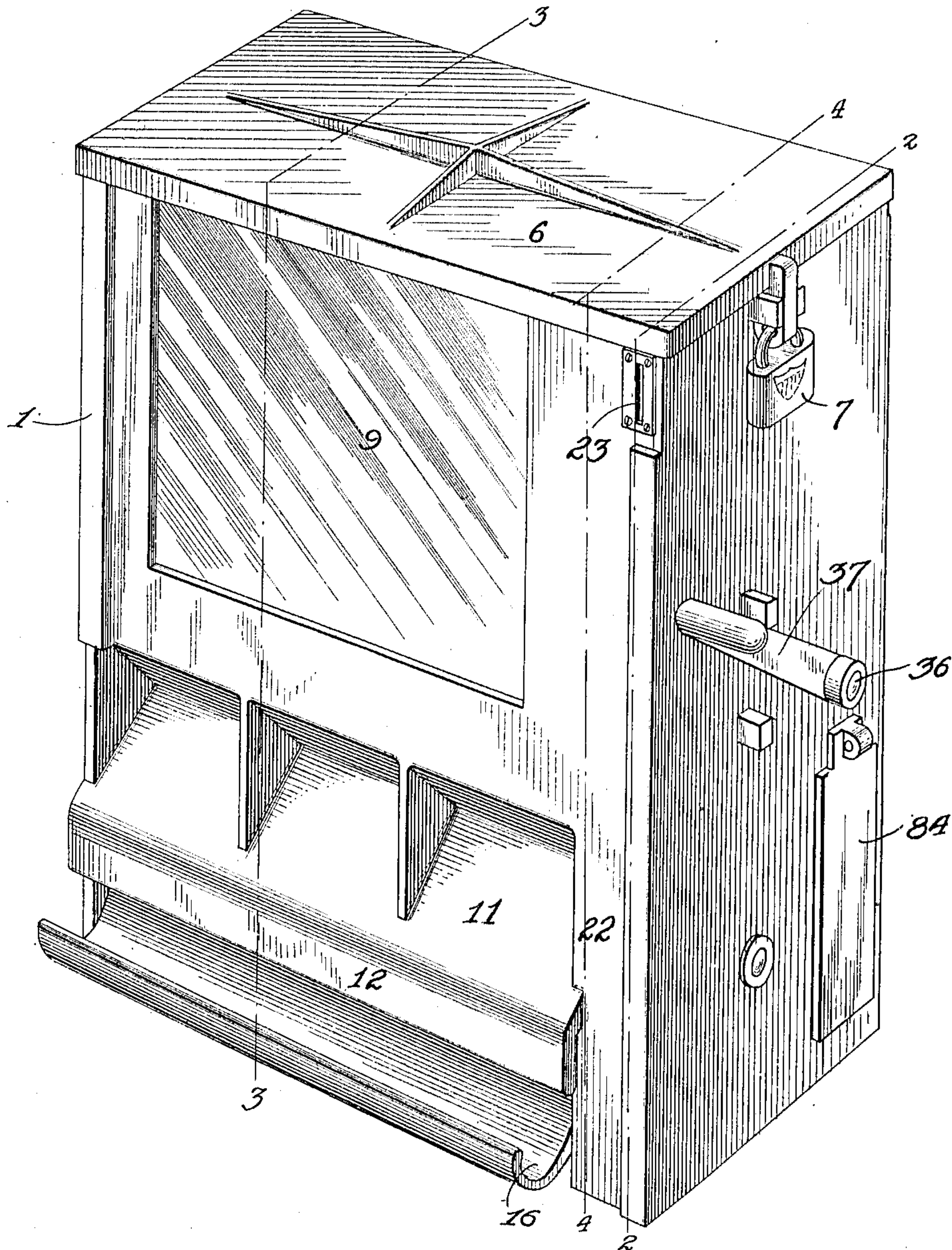
C. T. MCGILL.
 SLOT MACHINE.
 APPLICATION FILED NOV. 11, 1909.

993,860.

Patented May 30, 1911.

4 SHEETS—SHEET 1.

Fig. 1



Witnesses:
 S. G. Barrett
 H. J. Doyle

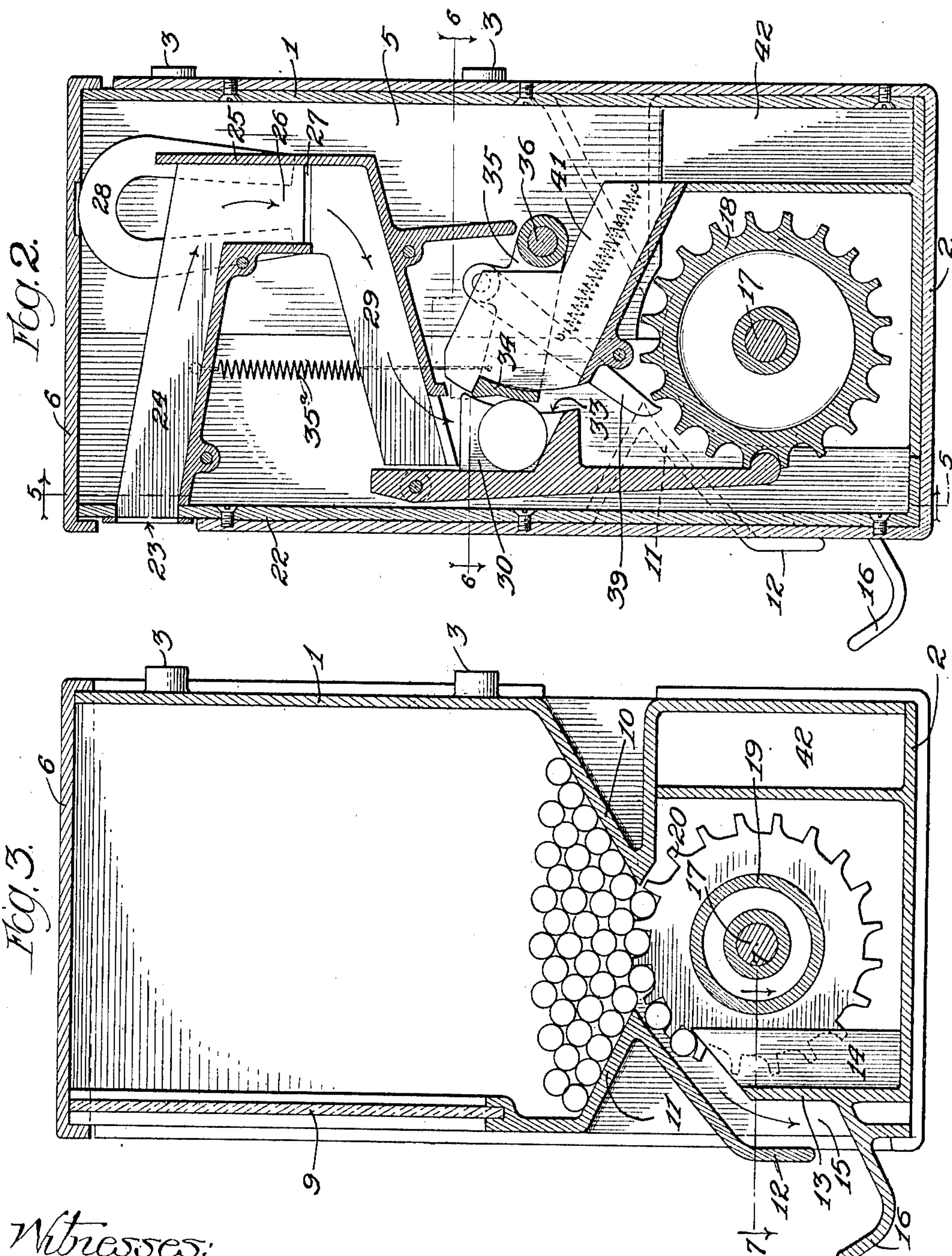
Inventor:
 Chester T. McGill,
 By E. C. Vrooman,
 Attorney

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4 SHEETS-SHEET 2.



Witnesses:

S. G. Barrett

H. J. Jordan & Dyer

Chester T. McGill, Inventor

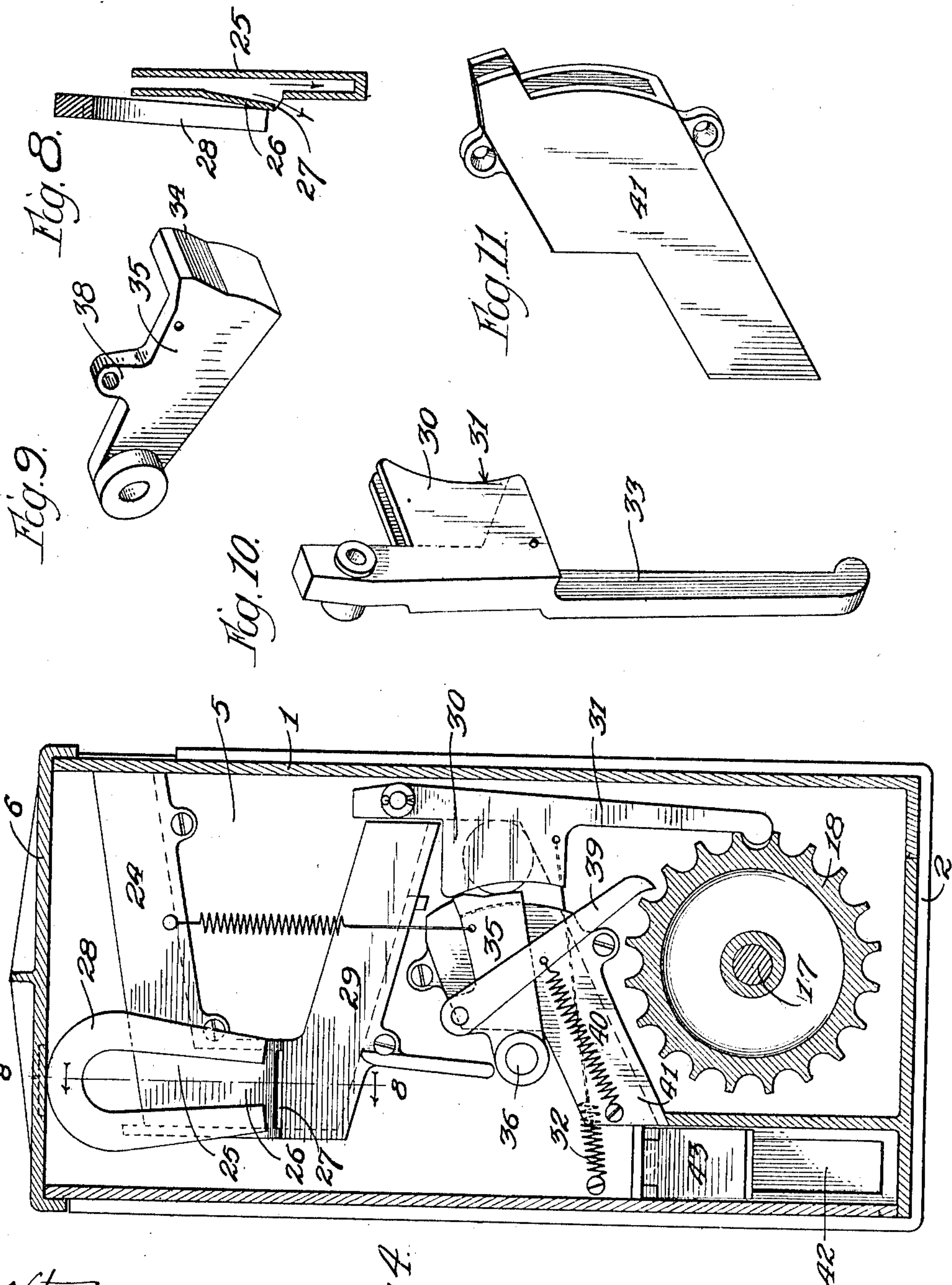
By E. C. Freeman,
Atty.

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4 SHEETS-SHEET 3.



Witnesses:
R. Barnett
H. Joseph Doyle

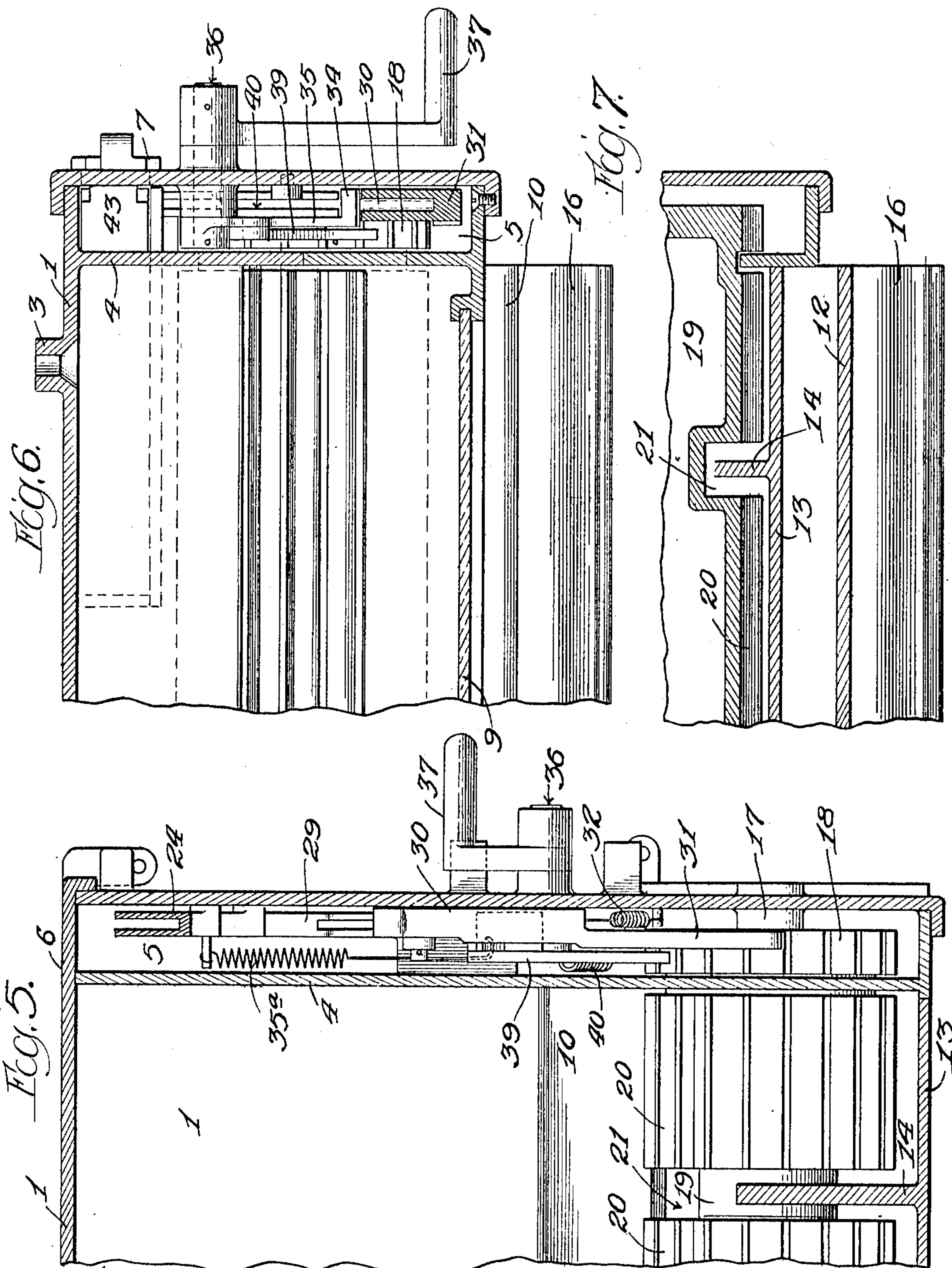
Fig. 4.

Inventor:
Chester T. McGill.
By E. E. Freeman,
Attorney

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4 SHEETS—SHEET 4.



Witnesses:
H. G. Barrett
H. J. J. Doyle

Inventor
Chester T. McGill.
By E. E. Brooman,
Att'y-in-f.

UNITED STATES PATENT OFFICE.

CHESTER T. MCGILL, OF ELGIN, ILLINOIS.

SLOT-MACHINE.

993,860.

Specification of Letters Patent.

Patented May 30, 1911.

Application filed November 11, 1909. Serial No. 527,447.

To all whom it may concern:

Be it known that I, CHESTER T. MCGILL, a citizen of the United States of America, residing at 107 Tennyson Court, Elgin, in the county of Kane and State of Illinois, have invented certain new and useful Improvements in Slot-Machines, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to coin controlled article vending machines, and the principal object of the same is to provide improved mechanism whereby an article, such as a pencil or the like may be delivered from the machine after the proper coin has been placed therein, means being provided whereby spurious coins will be deflected from the operating mechanism so that said mechanism will not be operated thereby.

20 In carrying out the objects of the invention generally stated above, it will be understood, of course, that the essential features involved are necessarily susceptible of changes in details and structural arrangements, one preferred and practical embodiment of which is shown in the accompanying drawings, wherein:—

Figure 1 is a perspective view of the improved vending machine. Fig. 2 is a vertical sectional view taken on the line 2—2, Fig. 1. Fig. 3 is a similar view taken on the line 3—3, Fig. 1. Fig. 4 is another similar view taken on the line 4—4, Fig. 1. Fig. 5 is a fragmentary vertical sectional view taken on the line 5—5, Fig. 2. Fig. 6 is a fragmentary horizontal sectional view taken on the line 6—6, Fig. 2. Fig. 7 is a similar view taken on the line 7—7, Fig. 3. Fig. 8 is a fragmentary vertical sectional view taken on the line 8—8, Fig. 4. Fig. 9 is a detail perspective view of a lever for releasing and operating the delivery cylinder. Fig. 10 is a similar view of the pawl that normally prevents the operation of the delivery cylinder. Fig. 11 is a similar view of the lower section of the coin chutes.

Referring to said drawings by numerals 1, designates the casing of the improved vending machine preferably rectangular and which may be suitably ornamented. The base 2 thereof is flat so that it may be firmly seated on a suitable support, and the back is provided with outstanding lugs 3 which have an opening formed through them so

that the casing may be fastened to a wall 55 standard or the like (not shown) by means of suitable fasteners that pass through said lugs from the interior of the casing in a manner well known. At one end, the casing 1 is provided with a vertical partition 4 60 which forms a narrow end compartment 5 that is of the same depth and width as the casing and in which the operating mechanism of the machine is located. A cover 6 is provided for the casing that has a lock engagement 7 with one end thereof and through which access may be had to the interior of the casing. The end that has the lock engagement with the cover 6 is preferably the end that incloses the operating mechanism compartment 5, and adjacent its base is provided with a slide 8 that controls access to the base of said compartment so that the coins therein may be removed. The upper portion of the casing is the reservoir for the articles to be vended and preferably the front thereof is provided with a glass covering 9 so that said articles may be inspected. Below the lower edge of said covering 9 the front and back of the casing 80 is contracted as indicated at 10, see Fig. 3, to provide a reduced outlet through which the articles are delivered to a rotatable cylinder, to be described in detail later. The contracted portion of the front of the casing 85 provides an outwardly and downwardly inclined guard plate 11 that terminates in a pendent lip 12 which overhangs, in spaced relation, a vertical guard strip 13 having end flanges 14 whose upper ends are beveled, 90 said plate 11, lip 12 and strip 13 providing between them a passageway 15 for the articles that communicates with a trough 16 projecting outwardly from the base of the casing 1 and from which the articles may be 95 readily removed by the purchaser.

A shaft 17 extends across the base of the casing below the passageway 15, said shaft being journaled in the ends of the casing and the portion of same that is within the 100 end compartment 5 has a ratchet wheel 18 fast thereon. The other portion of said shaft 17 has a cylinder 19 fast thereon, said cylinder having a longitudinally toothed surface 20 that is provided with 105 two annular grooves 21 into which the end flanges 14 of the guard strip 13 project to remove articles from said teeth 20 and cause

the same to drop through the passageway 15 to the trough 16.

At the front of the machine the end compartment 5 is covered by a narrow strip 22 which has an opening 23 formed through its upper end through which coins are passed. Said opening communicates with the upper end of a downwardly inclined upper section 24 of a coin chute, the lower end thereof carrying a pendent vertical portion 25 one side of which has a bulged out portion 26 having an open bottom 27. Said bulged out portion has a magnet 28 arranged adjacent thereto which attracts metal slugs and causes the same to be drawn through the open bottom 27 and fall to the base of the machine. The pendent portion 25 communicates with a downwardly inclined chute section 29 that extends in an opposite direction to that of the section 24, said section 29 having its bottom cut away at its lower end to permit a coin to drop there from to a laterally projecting inclined bottom pocket 30 carried by a pawl 31 having its upper end pivotally mounted adjacent the lower end of said section 29. Said pawl 31 is normally held in engagement with the ratchet wheel 18 by the spring 32 to prevent rotation of the shaft 17. The front end of the open pocket 30 is concaved as indicated at 33 so that a portion of the coin therein projects beyond said end and in the path of movement of the cam 34 that projects laterally from the free end of a lever 35 mounted on a rocker shaft 36 that extends across the compartment 5 and has one end projected through and beyond the end of the casing and equipped with a crank handle 37 so that by a partial rotation of said handle, the shaft 36 will rock and cause the lever 35 to cause its cam 34 to contact with the coin in pocket 30 and thereby rock pawl 31 from engagement with the ratchet wheel 18. The lever 35 has a pivot ear 38 to which one end of a pendent arm 39 is pivoted, the free end of said arm being held in position to engage the ratchet wheel 18 by means of a spring 40 so that when lever 35 is rocked to throw pawl 31 from engagement with said ratchet wheel, said arm will engage with and partially rotate the ratchet wheel, and as the latter and cylinder 19 are fast on shaft 17, it will be seen that a partial rotation will be imparted to cylinder 19 so that the contents of one of its corrugations will be dropped into passageway 15.

As will be seen by reference to Figs. 2 and 4, the cam of lever 35 normally holds the coin in the pocket 30, but when said cam is rocked free of the same, the coin will gravitate to the lower downwardly inclined chute section 41 and roll into the coin receptacle 42 where it strikes a pivotally mounted lip 43 and is deflected thereby so that the coin will be deposited in the base of the receptacle 41 to one side of the center thereof, thus pre-

venting a pile of the coins accumulating beneath the outlet end of the chute section 39.

From the foregoing it will be seen that the improved vending machine provides a simple and effective means for preventing slugs and the like gaining access to the operating mechanism, thus preventing fraudulent operation of the machine, and also provides means whereby it is necessary to insert the proper coin in the machine before the same may be operated for the reason that the coin forms the connection between the lever which rotates the delivery cylinder and the pawl which normally prevents rotation of said cylinder.

What I claim as my invention:—

1. A machine of the character described comprising a casing, a delivery cylinder rotatable in said casing, a pawl for normally preventing rotation of said cylinder, said pawl provided with a coin pocket, means for conveying a coin to said pocket, a lever, means for operating the same to contact with a coin in said pocket to release the pawl from engagement with said cylinder, and means carried by said lever for rotating said cylinder when the pawl is released therefrom.

2. A machine of the character described comprising a casing, a delivery cylinder rotatable therein, a pawl for normally preventing rotation of said cylinder, an open pocket carried by said pawl, means for conveying a coin to said pocket, a cam lever for contacting with the coin in said pocket to disengage the pawl from said cylinder, and means carried by said lever for rotating said cylinder.

3. A machine of the character described comprising a casing, an article delivery cylinder rotatable therein, a pawl normally preventing rotation of said cylinder, said pawl being provided with a coin pocket, a lever in said casing and provided with a cam at its free end, means for rocking said lever to cause its cam to contact with a coin in said pocket to cause the pawl to release the cylinder, an arm carried by said lever for rotating the cylinder, and means for feeding a coin to said pocket.

4. A vending machine comprising a casing, a delivery cylinder rotatable therein, a pawl mounted in said casing and normally preventing rotation of said cylinder, a coin pocket in said pawl, means operable from the exterior of said casing for disengaging said pawl from the cylinder when a coin is in said pocket and for simultaneously rotating said cylinder, and means for delivering a coin to said pocket.

5. A vending machine comprising a casing, rotatable article delivery means therein, a pawl provided with a coin pocket having an open end and an inclined bottom, said pawl normally preventing rotation of said

delivery means, a lever for releasing said
pawl from said delivery means and simul-
taneously rotating the same when a coin is
in said pocket, means for delivering a coin
5 to said pocket, and means receiving the coin
from said pocket after the lever has op-
erated the pawl.

In testimony whereof I hereunto affix my
signature in presence of two witnesses.

CHESTER T. MCGILL.

Witnesses:

A. L. ANDERSON,
ESTER WILSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
