

M. STOLTZ.
COIN CONTROLLED VENDING MACHINE.
APPLICATION FILED MAY 13, 1908.

910,738.

Patented Jan. 26, 1909.

FIG. I.

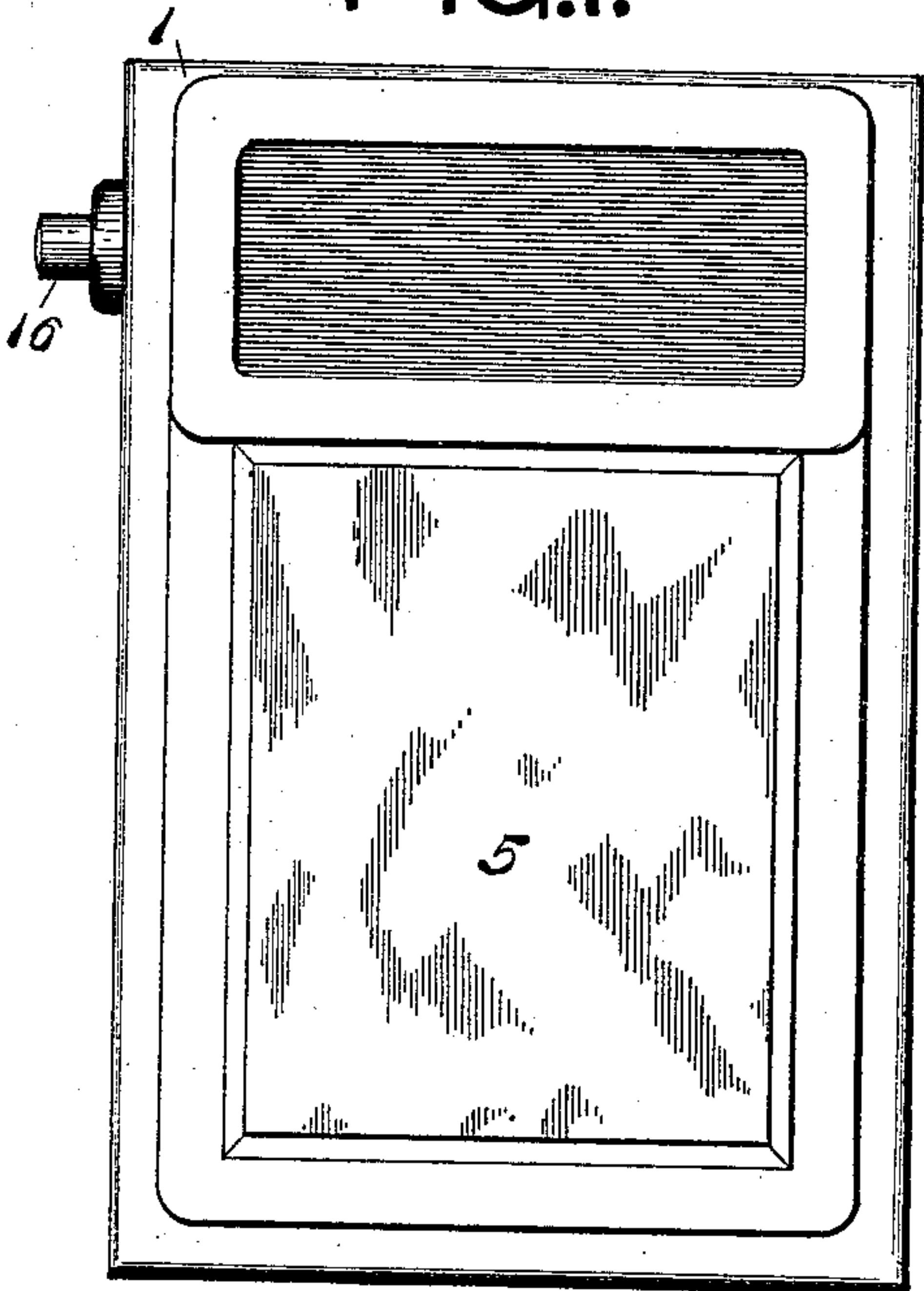


FIG. II.

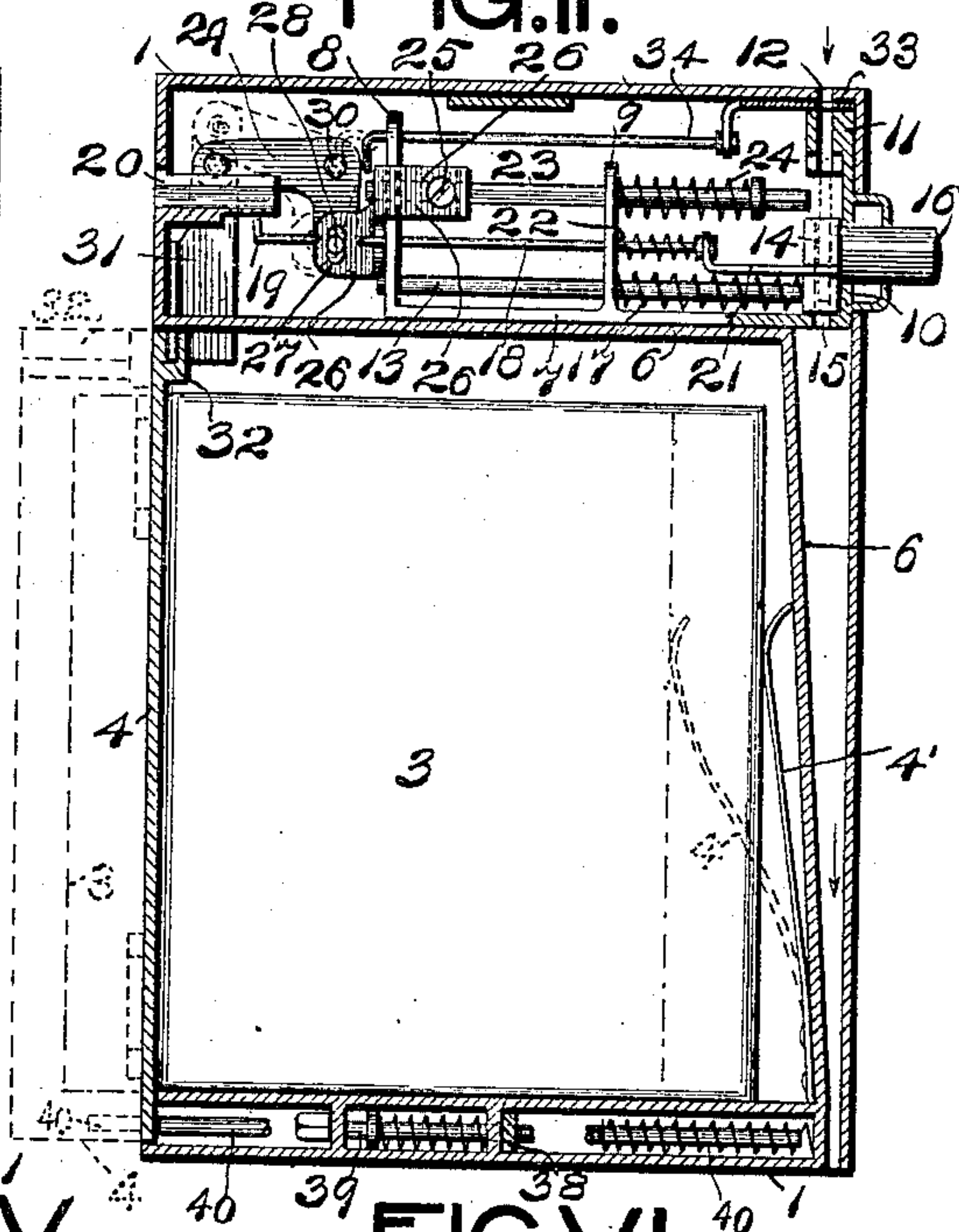


FIG. III. FIG. IIII. FIG. V.

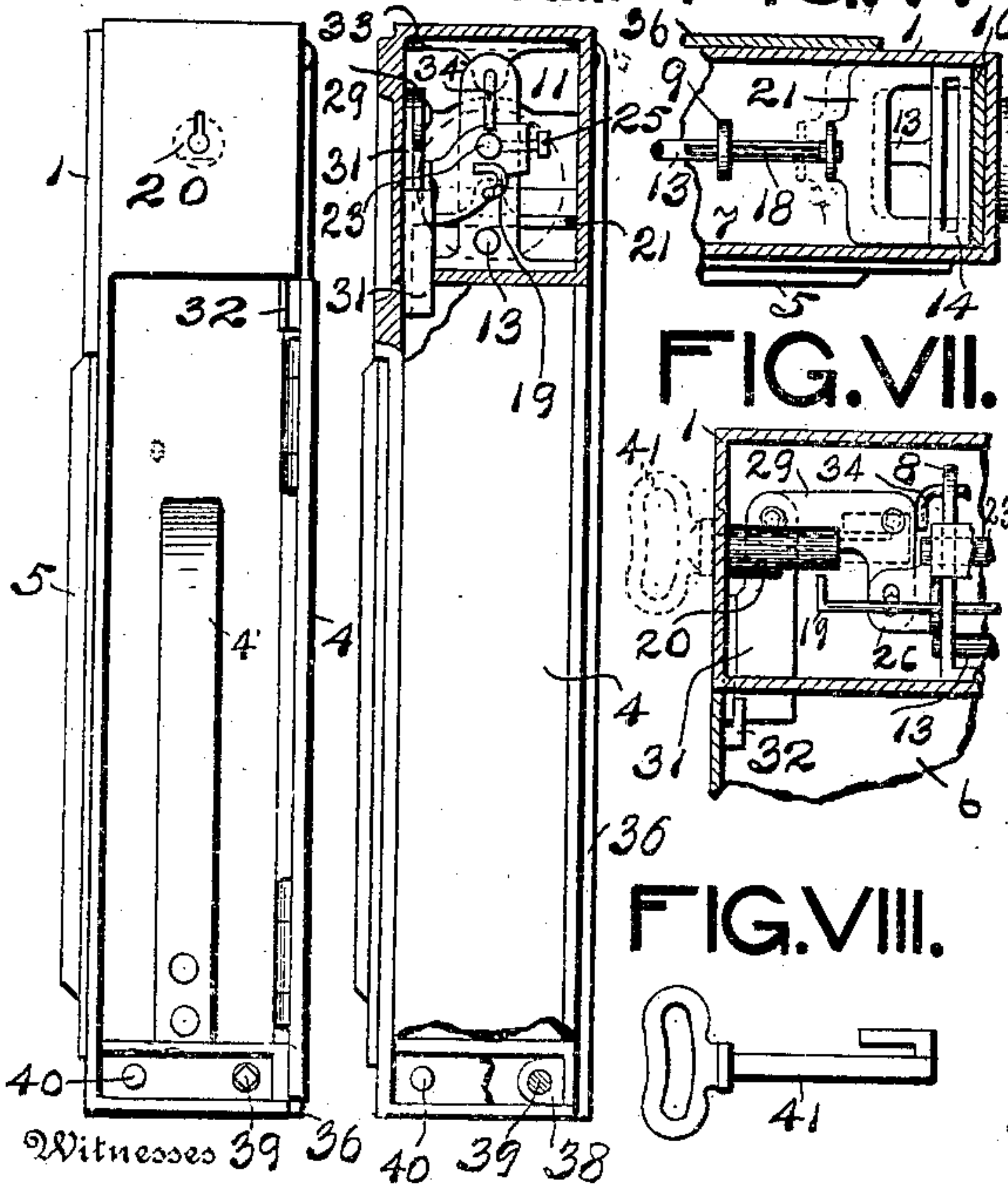


FIG. VI.

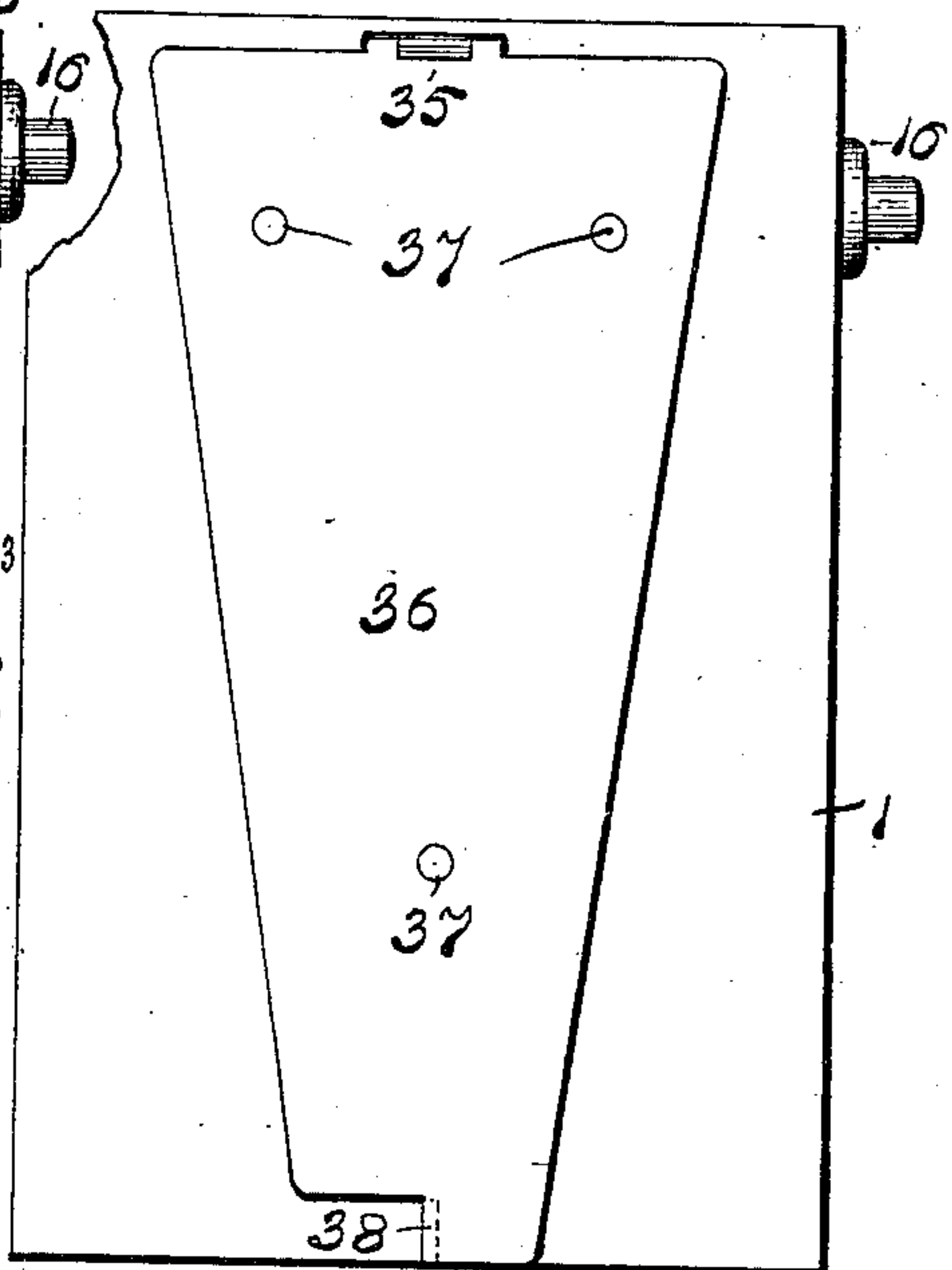


FIG. VII.

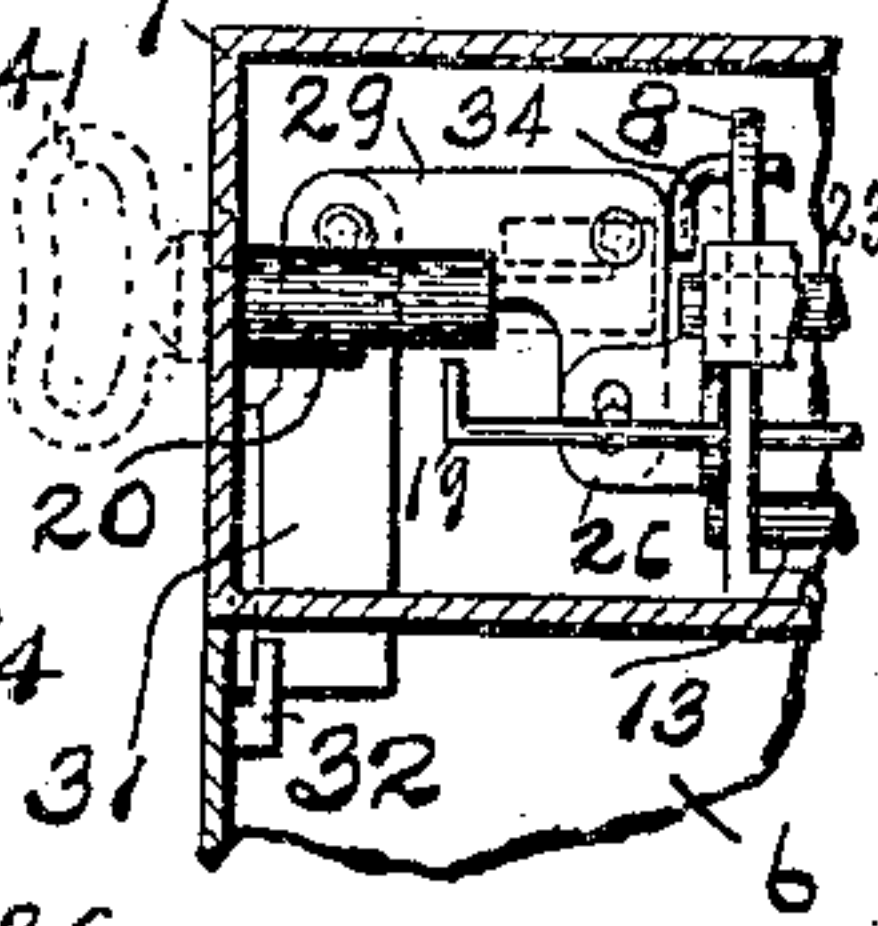
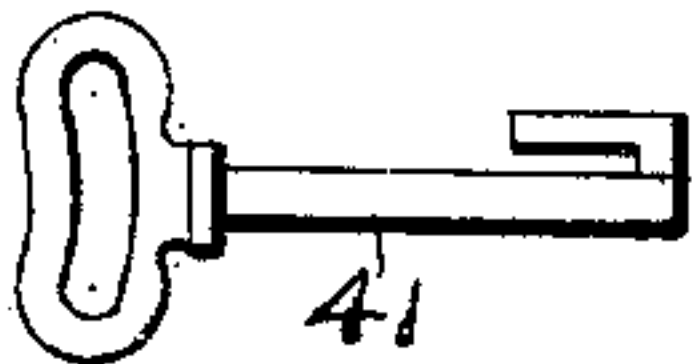


FIG. VIII.



Witnesses
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By

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UNITED STATES PATENT OFFICE.

MELVILLE STOLTZ, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR TO THE PEERLESS VENDING MACHINE COMPANY, OF PITTSBURG, PENNSYLVANIA, A CORPORATION OF NEW JERSEY.

COIN-CONTROLLED VENDING-MACHINE.

No. 910,738.

Specification of Letters Patent.

Patented Jan. 26, 1909.

Application filed May 13, 1908. Serial No. 432,569.

To all whom it may concern:

Be it known that I, MELVILLE STOLTZ, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Coin-Controlled Vending-Machines, of which the following is a specification.

My invention relates to certain new and useful improvements in coin-controlled vending-machines, and more particularly to that class of machines in which the coin inserted forms, temporarily, a part of the delivery actuating mechanism.

The object of my invention is to provide an apparatus of the above described character which contains and vends but one article, the coin remaining a portion of the operating mechanism until removed after the replacing of a new article therein for vending, etc.

A practical embodiment of my invention is represented in the accompanying drawings, wherein—

Figure I, is a vertical front elevation of my improved apparatus. Fig. II, is a similar view in section. Fig. III, is a side elevation of the same showing the door opened. Fig. IIII, is a side elevation partly in section. Fig. V, is a plan view of a portion of the apparatus in transverse section. Fig. VI, is a rear elevation of the apparatus. Figs. VII is a sectional view of the upper left hand corner of the apparatus, and Fig. VIII, is a plan view of the key employed to release the coin, similar detail parts of the apparatus shown in said views being designated by numerals of like character in the description following.

The invention embraces in its structure a casing 1 provided with a receptacle 2 for confining a package of confections, or other goods 3, said casing being further provided with a hinged door 4 through which the goods package is delivered through the medium of the spring 4', and is also provided with a glass front 5 to disclose the goods therein. Located within the upper portion of said casing, and secured to the transverse portion of the partition 6 forming the walls of the receptacle, is a bed-plate 7 having vertically disposed lugs 8, 9 and 10 thereon, the latter lug carrying a fixed coin guide 11 registering with the coin slot 12 of the casing. Loosely secured in said lugs 8 and 9 is a horizontally disposed and operative rod 13, provided at one end with a slotted coin carriage

14 which normally registers with the afore-said coin-guide and the slot 15 and carries a plunger 16, which extends through the side-wall of the casing, said carriage being maintained in normal position by a spiral-spring 17 on the rod. Extending through said lugs is a horizontally disposed and movable rod 18, provided at one end with a turned-up portion 19 which extends beneath the key hole extension 20, and at its opposite end with a member 21 projecting into slots formed in the side-walls of the coin-carriage, said forked member being retained in normal position by a spiral spring 22 arranged around the rod and is of lesser width between its prongs than the coin slot in the carriage so as to retain the coin in operative position in the carriage until removed or released. Another horizontally disposed and operative rod 23 passes through said lugs 8 and 9, which rod projects between the coin carriage and guide at one end and is adapted to be acted upon by the coin, said rod having connected to its opposite end, by a screw 25, the plate 26 which extends across the said lug 8 and is provided with an elongated slot 27 through which projects a pin 28 upon the one end of the bell crank 29 pivotally secured to the casing by a pin 30, said bell-crank being pivotally connected at its opposite end to the vertically disposed and operative latch 31 which engages the keeper 32 upon the door of the casing.

Extending through an opening in the coin guide 11 is a slot closing plate 33 having a slot therein normally registering with that of the guide, which plate is secured to a rod 34 extending through the lug 8 and has its free end turned downwardly in the form of a hook.

Connected by a hinge 35 to the upper rear portion of the casing is a plate 36 which is adapted to be secured to a theater chair or other fixture by screws passed through openings 37 therein which screws will be hidden by the back of the casing, said plate being provided at its free end with a lug 38 extending into an opening in the base of the casing and is engaged by a threaded bar 39 having a spiral spring thereabout. A spring actuated bar 40 is also arranged within the base of the casing to assist in opening the door when released.

In operation, the coin is inserted in the slot 12 and passes down into the carriage 14,

the plunger 16 is then forced inward causing the carriage to move forward and the coin therein to engage and force forward the rod 23 and its attending plate 26, which in turn
 5 causes the bell-crank 29 to operate and release the latch 31 from the keeper 32 of the door, followed by the opening of the door and the partial forcing out of the goods package (as seen by dotted lines at Fig. II,) due to the action of the spring 4' and spring
 10 actuated rod 40, said goods package being then in position where it may readily be removed. During the above described operation, the plate 26 in its forward movement
 15 with the rod 23, engages the turned-over end of the rod 34, causing the said rod and its attending plate, to move forward therewith to close the coin slot until said coin is removed. When it is desired to place a new
 20 package of goods in the receptacle, the plunger is again pressed forward, causing the latch to be lifted, the door is then closed before releasing the plunger and so held until the plunger is released, and upon re-
 25 leasing the plunger the springs 24 and 17 return the carriage and other mechanism to their normal positions thus locking the door. After this operation, a key 40 is inserted in the keyhole in the position indicated by dotted lines at Fig. VII, which
 30 insertion forces the rod 34 and its plate 33 back to their normal position and opens the slot for the insertion of another coin. After the key is inserted it is turned one-half
 35 revolution and then drawn outward, causing the hooked portion of the key to engage the hooked portion 19 of the rod 18 to be engaged thereby and drawn outward therewith,
 40 to move therewith and permit the coin to drop down through the slot 15 and out of a slot in the bottom of the casing and upon returning the key to its former position, preparatory to removal, the spring 22 upon
 45 said rod causes the plate to return to its former position.

The main function of the spring bar 40 is to cause the door to fly open in case of its closure accidentally or otherwise, by means
 50 of the plunger, after the delivery of the goods and preparatory to the removal of the coin from the carriage.

While I have shown and described a particular form of structure to carry out my
 55 invention I do not wish to confine myself to the exact form of details embodied therein as the same may be varied without departing from the spirit of my invention.

Having thus fully shown and described
 60 my invention, what I claim and desire to secure by Letters Patent is:

1. In a coin-controlled vending-machine, the combination of a casing for the inclosure of the mechanism and a single package of
 65 goods, a door on the goods receptacle, a

reciprocative carriage adapted to receive the coin, means to retain the coin therein, means for locking the door, means actuated by the coin in the carriage when moved in one direction to unlock the door for the de- 70
 livery of the goods package, means to assist the package of goods out of the receptacle, and means actuated by a key to discharge the coin from the carriage.

2. In a coin-controlled vending machine, 75 the combination of a casing for the inclosure of the mechanism and a single package of goods; a door on the goods receptacle, a reciprocative carriage adapted to receive the coin, means to retain the coin therein, means 80
 for locking the door, means actuated by the coin in the carriage when moved in one direction to unlock the door for the delivery of the goods, means to force the door open when unlocked, and means actuated by a 85
 key to discharge the coin from the carriage.

3. In a coin-controlled vending-machine, the combination of a casing for the inclosure of the mechanism and a single package of goods, a door on the goods receptacle, a re- 90
 ciprocative carriage adapted to receive the coin, means to retain the coin therein, a locking mechanism for said door the controlling member of which extends into the path of and is engaged by the coin in the 95
 carriage when said carriage is moved out of its normal position to unlock the door, and means to operate the coin retainer to release the coin from the carriage.

4. In a coin-controlled vending-machine, 100 the combination of a casing for the inclosure of the mechanism and a single package of goods and provided with a coin introducing slot, a door on the goods receptacle, a recip- 105
 rocative carriage adapted to receive the coin direct from the coin slot and provided with a push extension projecting through the casing for operating the same manually, and a locking mechanism for said door the controlling member of which extends into the path of 110
 and is engaged by the coin in the carriage when moved out of its normal position to unlock the door, said locking mechanism adapted to automatically resume its normal position, like that of the coin and carriage, after 115
 the door is open and said carriage has been manually released.

5. In a coin-controlled vending-machine, the combination of a casing for the inclosure of the mechanism and a single package of 120
 goods, a door on the goods receptacle, a reciprocative carriage adapted to receive the coin, means to retain the coin therein, a locking mechanism for said door the controlling member of which extends into the path of 125
 and is engaged by the coin in the carriage when said carriage is moved out of its normal position to unlock the door, means to assist the delivery of the package of goods when the door is unlocked, and means to operate the 130

coin retainer to release the coin from the carriage.

6. In a coin-controlled vending-machine, the combination of a casing for the inclosure of the mechanism and a single package of goods, a door on the goods receptacle, a reciprocative carriage adapted to receive a coin, means to retain the coin therein, a locking mechanism for said door the controlling member of which extends into the path of and is engaged by the coin in the carriage when said carriage is moved out of its normal position to unlock the door, means to assist the delivery of the package of goods from the receptacle when the door is opened, means to prevent the door being accidentally locked, and means to operate the coin retainer to release the coin from the carriage.

7. In a coin-controlled vending-machine, the combination of a casing for the inclosure of the mechanism and a single package of goods and having a coin introducing slot therein, a door on the goods receptacle, a reciprocative carriage normally located beneath the said slot adapted to receive and retain the coin in a vertical position and provided with a push extension projecting through the casing for operating the same manually, and a locking mechanism for said door the controlling member of which extends into the path of and is engaged by the coin in the carriage when moved out of its normal position to unlock the door, said locking mechanism adapted to automatically resume its normal position, like that of the coin and carriage, after the door is opened and said carriage has been manually released.

8. In a coin-controlled vending-machine, the combination of a casing for inclosing the mechanism and a single package of goods and having a coin introducing slot therein, a door on the goods receptacle, a reciprocative carriage normally located beneath the said slot adapted to receive and retain the coin in a vertical position and provided with an extension projecting through the casing for operating the same manually, a member supporting the coin in the carriage, a locking mechanism for the door the controlling member of which extends into the path of and is engaged by the coin in the carriage when

moved out of its normal position to unlock the door, and means to operate the coin supporting member to disengage the coin from the carriage.

9. In a coin-controlled vending-machine, the combination of a casing for inclosing the mechanism and a single package of goods and having a coin introducing slot therein, a door on the goods receptacle, a reciprocative carriage adapted to receive and retain the coin in a vertical position and provided with an extension projecting through the casing for operating the same manually, a member supporting the coin in the carriage, a locking mechanism for the door the controlling member of which extends into the path of and is engaged by the coin in the carriage when moved out of its normal position to unlock the door, a member to assist the delivery of the package from the receptacle, and means to operate the coin supporting member to discharge the coin from the carriage.

10. In a coin-controlled vending-machine, the combination of a casing for inclosing the mechanism and a single package of goods and having a coin introducing slot therein, a door on the goods receptacle, a slotted reciprocative carriage normally located beneath the casing slot adapted to receive and retain the coin therein and provided with an extension projecting through the casing for manually operating the same, a member supporting the coin in the slot of the carriage, a locking mechanism for the door the controlling member of which extends into the path of and is engaged by the coin in the carriage when moved out of its normal position to unlock the door, a member to assist the package of goods from the receptacle, means to operate the coin supporting member to discharge the coin therefrom, and means to assist the opening of the door and prevent its accidental closure after opening.

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

MELVILLE STOLTZ.

Witnesses:

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R. S. HARRISON.