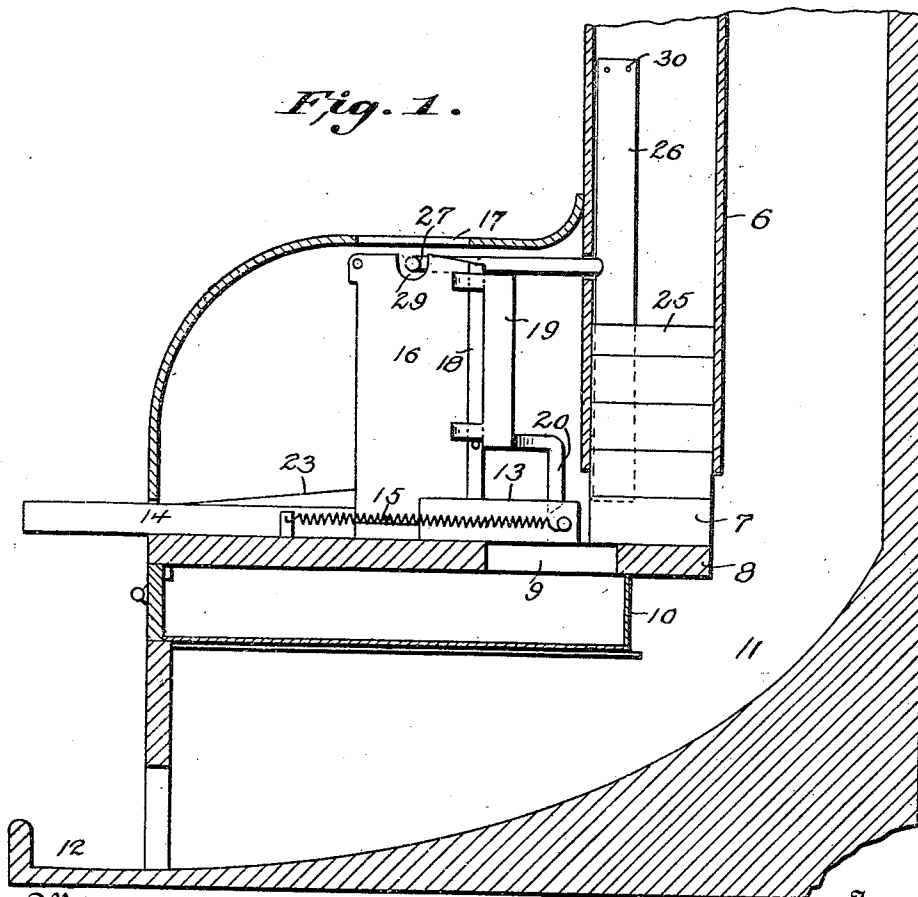
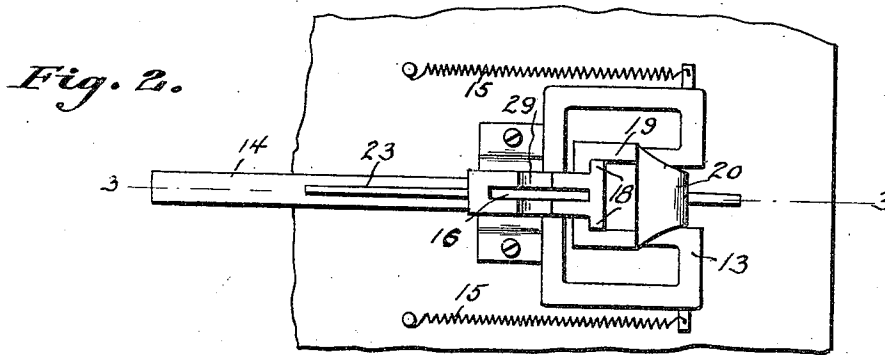


No. 816,594.

PATENTED APR. 3, 1906.

J. W. PEDEN.
VENDING MACHINE.
APPLICATION FILED APR. 11, 1905.

2 SHEETS--SHEET 1.



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2 SHEETS—SHEET 2.

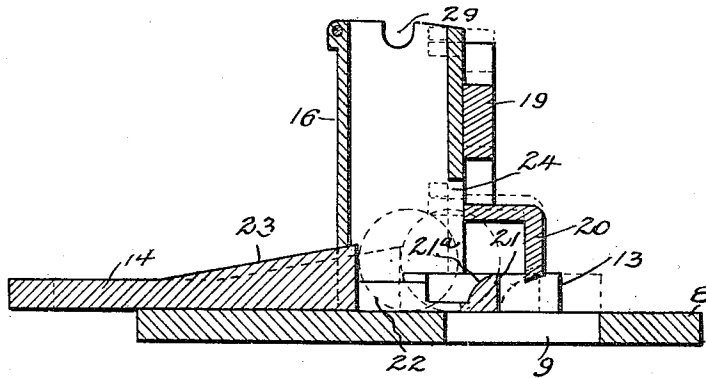


Fig. 3.

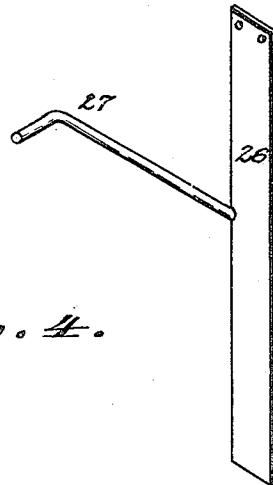


Fig. 4.

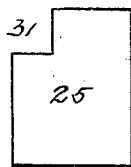


Fig. 5.

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UNITED STATES PATENT OFFICE.

JOSEPH W. PEDEN, OF MARSHALL, MICHIGAN, ASSIGNOR OF FOUR-TENTHS
TO RALPH C. TEAGUE, FOUR-TENTHS TO WILBUR J. VAUGHN, AND TWO-
TENTHS TO FRANK OTTO, ALL OF DETROIT, MICHIGAN.

VENDING-MACHINE.

No. 816,594.

Specification of Letters Patent.

Patented April 3, 1906.

Application filed April 11, 1905. Serial No. 254,973.

To all whom it may concern:

Be it known that I, JOSEPH W. PEDEN, a citizen of the United States, residing at Marshall, in the county of Calhoun and State of Michigan, have invented new and useful Improvements in Vending-Machines, of which the following is a specification.

This invention is a coin-controlled apparatus for automatic vending-machines.

It has for its object to provide novel and improved means for releasing a lock and delivering the article to be vended, the delivery of the article being effected by a pusher, which is normally engaged by a detent and which when the proper coin is deposited will act to lift the detent and allow the delivery of the article.

A further object of the invention is to provide means for closing the coin-slot when the machine is empty.

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

Figure 1 is a sectional view of a vending-machine, showing the coin-controlled apparatus. Fig. 2 is a top plan view of the coin-controlled device removed from the casing. Fig. 3 is a section on the line 3 3 of Fig. 2. Fig. 4 is a perspective view of the spring which operates the slot-closer. Fig. 5 is a top plan view of a follower-weight.

Referring specifically to the drawings, 6 indicates the magazine or vertical supply-channel for the stock of goods to be vended, said goods being indicated at 7. These goods rest upon a horizontal shelf or partition 8, which has a coin-slot 9 leading to the money-drawer 10 and an opening 11 at the back, through which the article delivered will drop into the tray 12, whence it may be removed by the purchaser.

13 indicates a pusher which reciprocates under the lower end of the magazine 6 and has an operating-rod 14 projecting in the front of the machine. A spring 15 normally retracts the pusher.

16 indicates a chute which is fixed to the shelf 8 and receives a coin through the coin-slot 17 in the front of the casing. This chute has at the rear edge vertical guides 18, on which the block 19 slides up and down, carrying the detent 20, which hooks over the front edge of the pusher at 21. The rod 14 is slidable through the base of the chute 16

and has a slot 22 located directly under said chute and also a fin 23 behind said slot, and the wall of the coin-chute between the guides 18 is slotted, as at 24, to allow the passage of a coin therethrough when actuated by the push-rod.

In operating the device the proper coin is deposited through the slot 17 into the chute 16 and it drops to the shelf 8. The pusher is then advanced, carrying with it the coin in the slot 22 in advance of the fin 23. The contact of the edge of the coin with the lower edge of the block 19 lifts said block, and consequently releases the detent 20, allowing the pusher to be advanced and to shove the lowermost package 7 off the shelf, whence it drops through the opening 11 to delivery. As soon as the coin reaches the slot 9 it drops therethrough into the money-drawer. As soon as the push-rod is released the springs 15 retract the same and the detent 20 again drops over the end of the pusher 21, the back of the detent being beveled and lifted by the incline at 21^a. The detent further acts to stop excessive inward push of the pusher by contact of the fin 23 against said detent after the fall of the coin through the slot 9.

To close the coin-slot when the stock of goods is exhausted, I employ a weak spring 26, having a bent arm 27, the end of which is located opposite a notch 29 in the top of the coin-chute directly under the coin-slot 17. This spring is located in the channel 6, being fixed to one of the sides thereof at 30, and the lower end tends to spring out.

25 indicates a weight which acts as a follower on top of the packages. This weight is notched, as at 31, in the corner adjacent the spring 26.

When the last package is delivered, the follower drops to the shelf and the lower end of the spring 26 springs out into the notch 31, carrying the end of the arm 27 laterally across the coin slot and chute and barring the way so that a coin cannot be inserted. Normally the packages 7 confine the spring 26 against the side of the channel 6, in which position the arm 27 is not of sufficient length to reach across the slot.

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

1. In a vending-machine, in combination, a shelf having a coin-slot and a delivery-open-

ing, a magazine of which the shelf forms a
bottom, a coin-chute supported upon the
shelf in front of the magazine and having
guides at its rear edge, a delivery-pusher
5 slidable on the shelf under the magazine and
chute and having a slot registering with the
coin-chute, and acting to push the coin from
the chute to the slot in the shelf and to push
goods from the magazine to the opening in
10 the shelf, and a block slidable in the guides
on the chute, having a downwardly-extending
detent engaged behind the rear end of the
pusher, between the chute and the magazine.

2. In a vending-machine, in combination,
15 a coin-chute, a goods-magazine, and a spring
secured to the side of the magazine and located
between said side and the goods therein and
normally held back by the goods, and
having an arm which is moved across the

mouth of the chute by the spring when the 20
magazine is empty.

3. In a vending-machine, in combination,
a coin-chute, a goods-magazine, a spring in
the magazine normally held back by the
goods therein, and having an arm which is 25
moved by the spring across the chute when
the magazine is empty, and a weight-follower
upon the goods having a notch into which
the spring advances when the follower
reaches the bottom of the magazine. 30

In testimony whereof I have signed my
name to this specification in the presence of
two subscribing witnesses.

JOSEPH W. PEDEN

Witnesses

GEO. S. TRUMBLE,
L. S. TAYLOR.