C. E. OSMUN.

VENDING MACHINE.

APPLICATION FILED APR. 15, 1912.

1,217,103.

Patented Feb. 20, 1917.

5 SHEETS—SHEET 1.

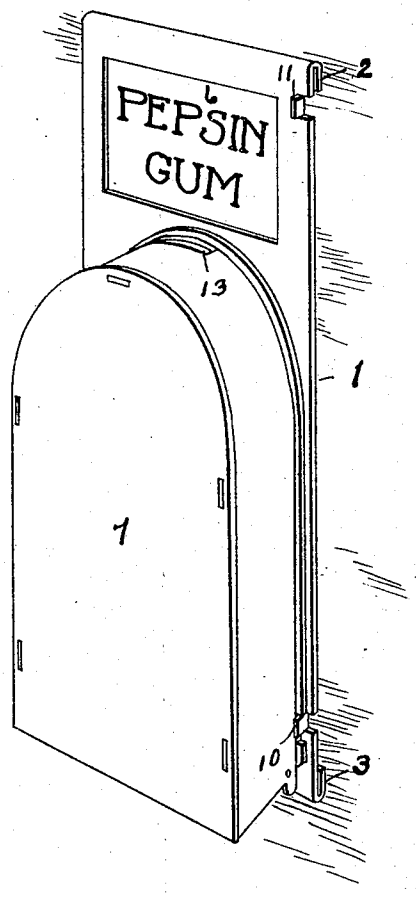


Fig. 1

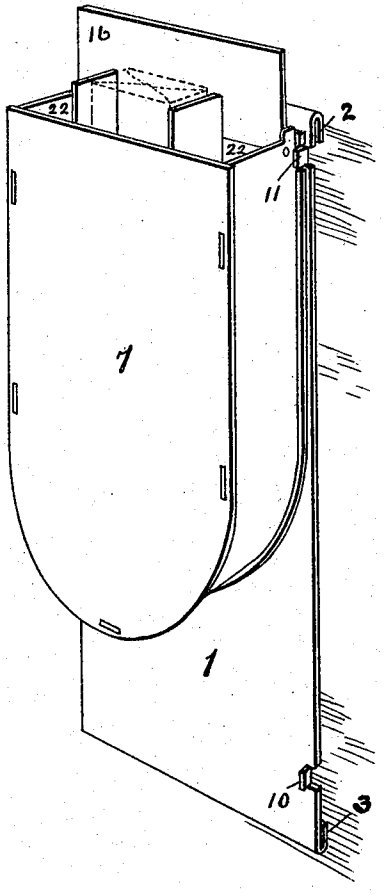


Fig. 2

WITNESSES

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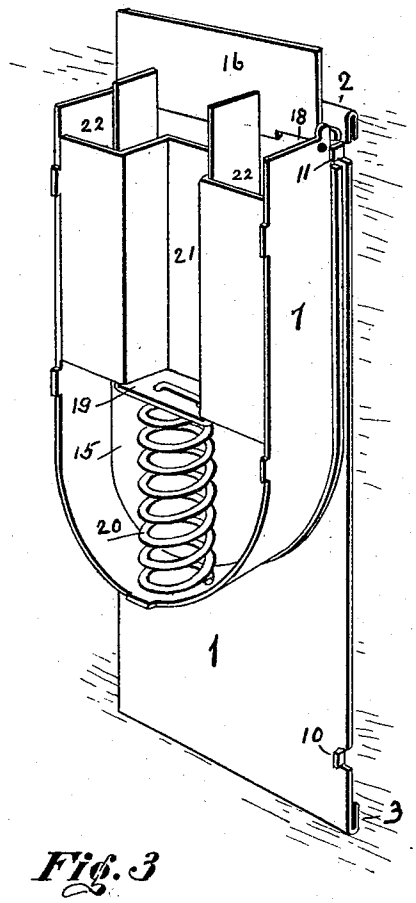
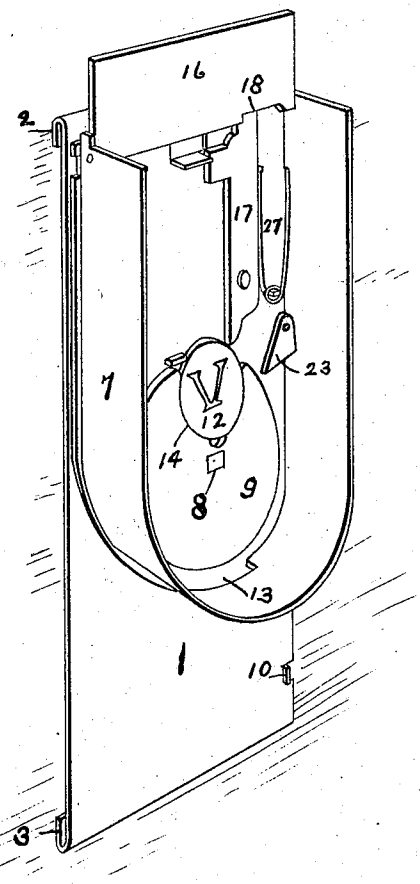


Fig. 3

Fig. 4



WITNESSES

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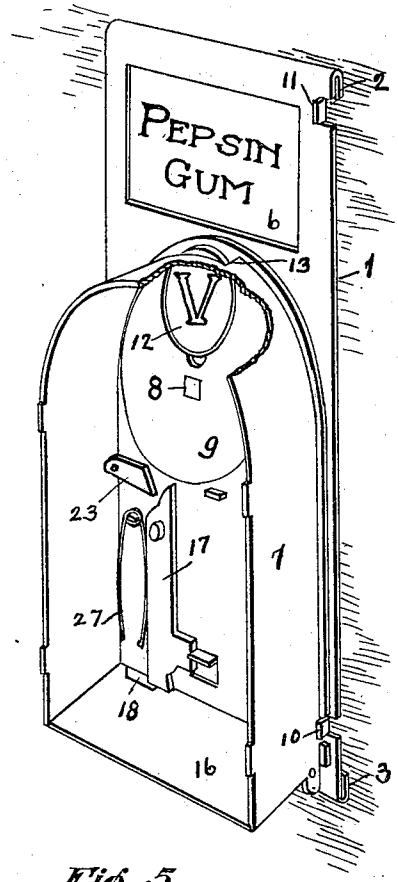
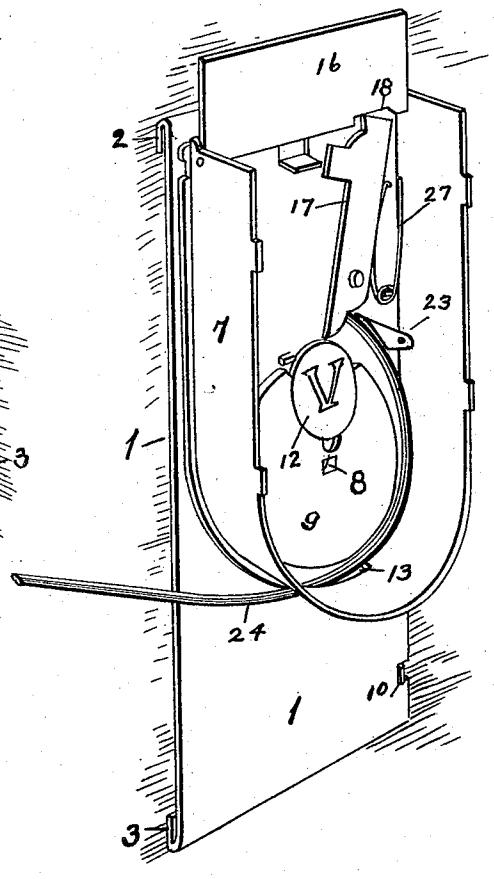


Fig. 5

Fig. 6



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5 SHEETS—SHEET 4.

Fig. 7

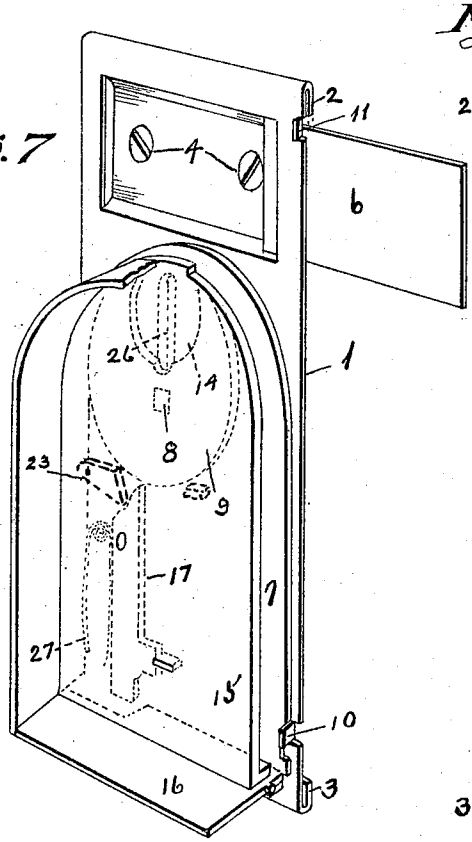


Fig. 8

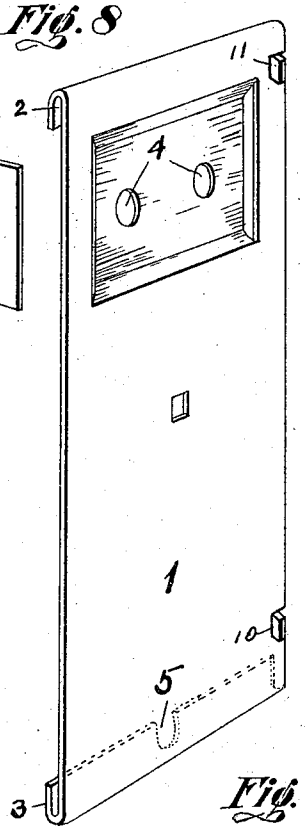


Fig. 9

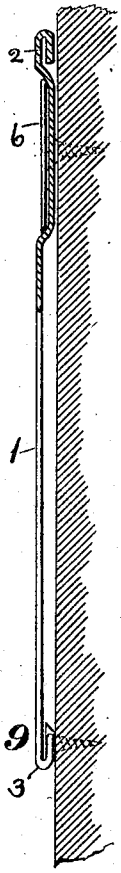


Fig. 10

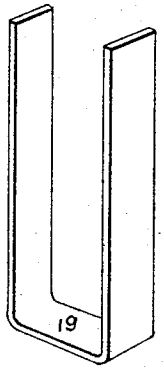
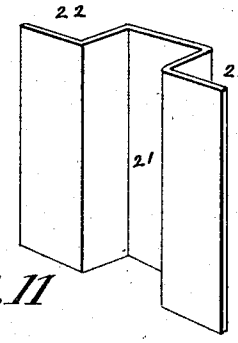


Fig. 11



WITNESSES

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5 SHEETS—SHEET 5.

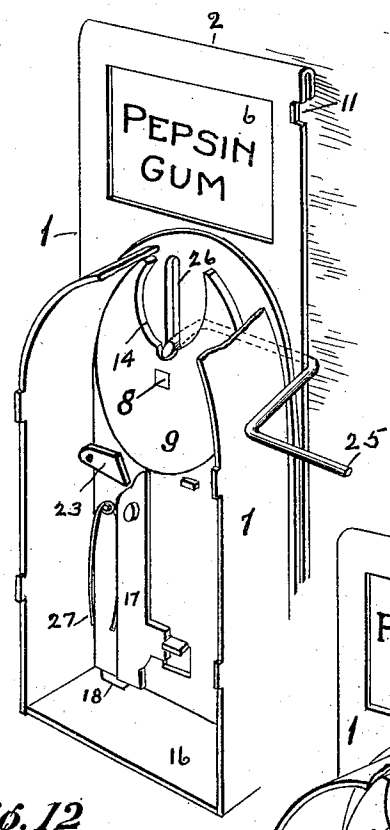


Fig. 12

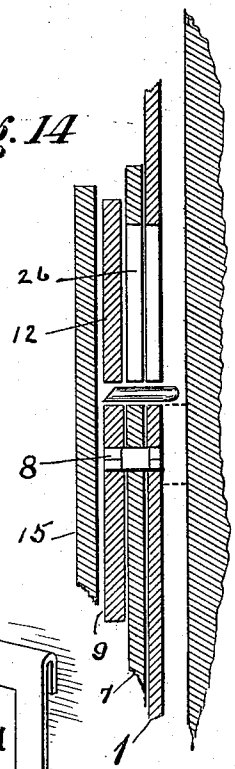


Fig. 14

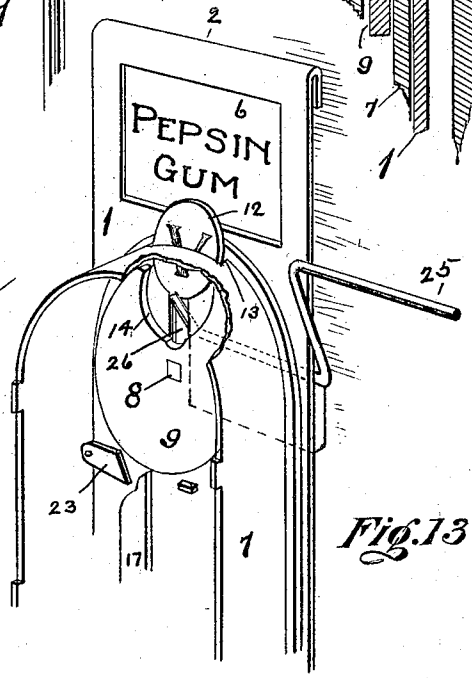


Fig. 13

WITNESSES

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UNITED STATES PATENT OFFICE.

CHARLES E. OSMUN, OF SAN FRANCISCO, CALIFORNIA.

VENDING-MACHINE.

1,217,103. Specification of Letters Patent. Patented Feb. 20, 1917.

Application filed April 15, 1912. Serial No. 690,891.

To all whom it may concern:

Be it known that I, CHARLES E. OSMUN, residing in the city and county of San Francisco, State of California, have invented certain new and useful Improvements in Vending-Machines, whereof the following is a specification.

My invention relates to vending machines, and has for its object to provide a coin slot device of the character specified having new and useful means for safely holding the article to be vended, for allowing the dropping of a coin to operate the vending mechanism, and for disclosing the fact when the box is empty.

With said objects in view, my invention consists of a back plate adapted to be secured to walls, backs of chairs, or other suitable supports; a box movably secured to said back having a lid on the bottom and a coin slot on the top; and which may be turned upside down to bring the lid to the top; a receptacle for the article to be vended; a lock for said lid which is unlocked by a coin held in proper position when said box is inverted and means for opening said lid when it is unlocked and extruding the article to be vended.

It also consists in the novel parts, combinations and arrangements set forth in the following specification, particularly pointed out in the claims, and illustrated in the accompanying five sheets of drawing of which:

Figure 1, is a perspective view of my novel vending machine in its normal position or coin-receiving position;

Fig. 2, is a perspective of the same, showing the box in its inverted or article-delivering position;

Fig. 3, is a perspective view similar to Fig. 2, with the face plate removed showing the receptacle for the article vended;

Fig. 4, is a perspective view similar to Fig. 2, with the vending parts removed, and the coin-operated mechanism exposed;

Fig. 5, is a perspective view similar to Fig. 1, with inner parts removed to expose the coin-operated mechanism, showing the coin lying directly under the coin slot;

Fig. 6, is a perspective view similar to Fig. 4, showing means for releasing my device from its inverted position, the coin being in place;

Fig. 7, is a perspective view partially broken away, showing the title plate partially removed;

Fig. 8, is a perspective view of the back plate for securing my device to backs of chairs, walls or other suitable supports;

Fig. 9, is a partial longitudinal central section view of Fig. 8;

Fig. 10, is a perspective view of the lid opener;

Fig. 11, is a perspective view of the receptacle for the vended article;

Fig. 12, is a perspective view similar to Fig. 5, showing means for removing the coin;

Fig. 13, is a fragmentary perspective view similar to Fig. 12, illustrating the process of removing the coin, and

Fig. 14, is a partial central longitudinal section of Fig. 7.

The same symbol of reference marks the same part in whichever view said part may appear.

Referring to the drawing, 1 is a back-plate, having turned-over ends, 2 and 3, holes 4 and notch 5, for screws to secure said plate to a suitable support.

At the upper part of the plate is an open space for displaying the removable sign 6.

A box 7, is rotatably mounted on said plate by means of a peg 8 passing loosely through a hole in the back thereof and securing a disk 9 against the inner surface of said back, as particularly shown in Fig. 14, so as to movably engage said back between said disk and said plate. Wherefore box 7, may be rotated about the peg 8, the stop 10 limiting its movement in the counter clockwise direction, and the stop 11 limiting its movement in the clockwise direction; both stops are located on the plate.

The box is free to turn in the manner indicated until coin 12 has been deposited in the slot 13 and dropped into the notch 14 on the edge of disk 9 located between the inner face of the back of the box as previously mentioned, and the division plate 15, which separates the coin actuating mechanism from the vending mechanism and at the same time forms with the notch 14 a receptacle for the coin 12 as particularly shown in Fig. 7, and partially in Fig. 14. As soon as the coin 12 is in the notch 14 as mentioned, the box may be rotated into the position illustrated in Fig. 2, and engage a

locking device which will be further described hereinafter, and the following operations occur.

The lid 16, which has been lying in a closed position, locked by the latch 17, becomes free as soon as the coin 12 engages the latch, and turning or swinging it into the notch 18, on the lid which is pivoted in such a manner as to leave a backwardly projecting portion engaging the latch, and prevents thereby further movements on its pivots, and the notch 18 being located on the edge of said projecting portion, consequently when the latch is turned to said notch, the lid becomes free and immediately opens by means of a U shaped piece 19 provided with spring 20 which forces it to move upwardly across the box, and secured permanently therein is a plate bent in such a manner to form a central compartment 21, in which the article to be vended is placed as shown in dotted line Fig. 2, and rest upon the lower end of the U shaped piece 19 and two lateral recesses 22, in which the side member of said piece moves vertically until the lower end reaches the bottom edge of the plate and the upper ends of the side members come in contact with the lid and cause the same to open as previously mentioned, while the U shaped piece moves upwardly carrying with it the article thereon sufficiently high enough to be easily removed therefrom. All these features and their operations are fully illustrated in Figs. 3, 4, 6, 10 and 11.

The locking device above mentioned consists of a pivoted stop 23, which engages the coin 12 when the box is in an inverted position, and prevents thereby any attempt made to rotate the same back to its normal position.

In its inverted position the box is clearly shown to be empty, the sign is covered from view, and the position of the coin-slot is reversed while the coin 12 remains in its normal position, and cannot be removed at all until the box is restored to its normal position, which is accomplished by the operator using a curved tool 24, inserted through the slot 13, as shown in Fig. 6, and turns stop 23 out of engagement with the coin 12 and pushes the latch 17 over said coin. Restored to its normal position, the coin in the box is reached by another tool 25, which is arranged to pass through a narrow slot 26 from the rear side of plate 1 as shown in Figs. 12, 13 and 14, and located just behind the coin receptacle 14 and which by turning said tool enables coin to be returned through the slot 13.

After the removal of the coin the receptacle is again filled and the lid closed. Latch 17 again falls into engagement with the inner side of the backward projecting part of the lid, through the action of the spring 27, again locking the lid and restoring my device to its normal condition for receiving a coin and vending its contents.

Having thus described my invention what I claim as new and desire to secure by Letters Patent of the United States, modification within the scope of the claims being expressly reserved, is:

1. In a check controlled apparatus, a supporting plate, a rotatable box pivotally secured to said plate, a lid on said box, a latch in said box for locking said lid and stationary means within the box for holding a coin in the path of the latch when the box is rotated whereby said lid is released.

2. In a check controlled apparatus, a supporting plate, a rotatable box pivoted to said plate, a lid on said box, a latch in said box for locking said lid, an article extruder in said box, normally retained by said lid and stationary means within said box for holding a coin in the path of the latch whereby when the box is rotated about its pivot the latch engages the coin and is swung thereby to release said lid.

3. In a check controlled apparatus, a supporting plate, a rotatable box pivoted to said plate, a lid on said box, a latch in said box for normally locking said lid, a stationary disk in said box provided with a notch for receiving a coin and holding it in the path of the latch whereby upon rotation of the box the latch is swung to release said lid.

4. In a check controlled apparatus, the combination of a rotatable box, a lid on said box provided with a notch, a swinging latch in said box adapted to engage and lock said lid in a closed position and stationary means to hold a coin in the path of the latch whereby upon rotation of the box the latch engages the coin and is swung thereby into alinement with said notch.

5. In a check controlled apparatus, the combination of a rotatable box, a stationary disk within said box provided with a coin receiving notch, a pivoted lid on said box provided with a projecting posterior portion and a latch in said box engaging said posterior portion to lock said lid, said latch engaging a coin in said notch to release said lid upon rotation of the box.

6. In a check controlled apparatus, a rotatable box, a coin slot in said box, a stationary disk within said box provided with a notch adapted to receive a coin inserted through said slot and means for removing the coin from said notch through said slot when the box is in normal position.

7. A check controlled apparatus comprising a supporting plate, a rotatable box mounted on said plate and having a lid, means for normally locking said lid, a vertically movable article extruder within said box and normally held depressed by said lid and a stationary disk within the box provided with a notch for receiving and hold-

ing a coin in the path of the locking means as the box is rotated whereby the lid is unlocked and the article extruder is released.

8. A check controlled apparatus comprising a supporting plate, a rotatable box pivotally secured to said plate, a lid for said box, means for normally locking said lid, a stationary disk within said box provided with a coin receiving notch so positioned that upon rotation of the box the locking means engages the coin in said notch to release said lid and means to prevent the backward rotation of the box after the lid has been released.

In testimony that I claim the foregoing I have hereto set my hand in the presence of witnesses, this 5th day of April 1912.

CHARLES E. OSMUN.

Witnesses:
M. A. MILLER,
F. L. GILSON.

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