J. W. PATTERSON.

VENDING MACHINE.

APPLICATION FILED SEPT. 24, 1906.

974,813.

Patented Nov. 8, 1910.

FIG. 3

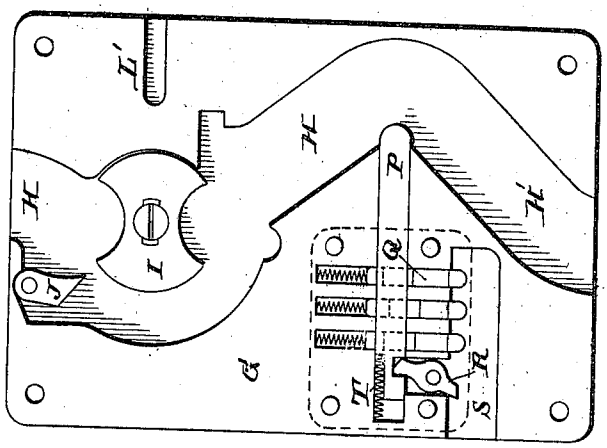


FIG. 4

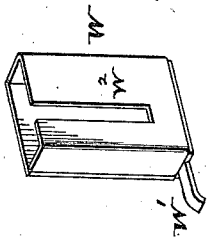
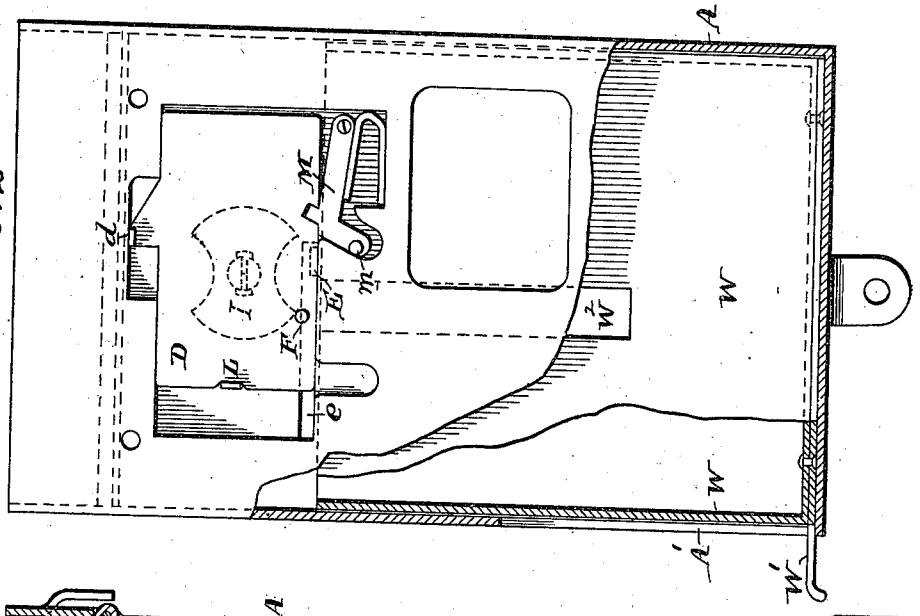


FIG. 2



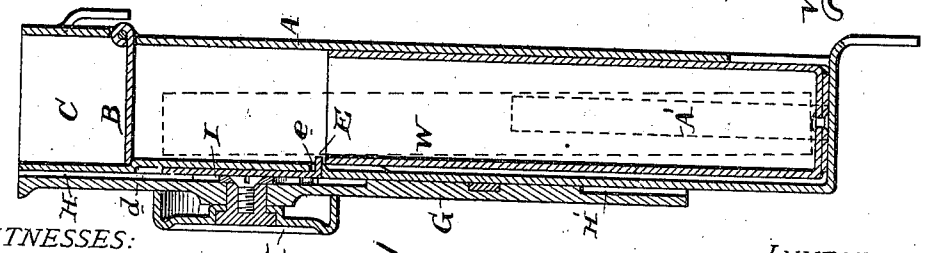


FIG. 1

WITNESSES:

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VENDING-MACHINE.

974,813. Specification of Letters Patent. Patented Nov. 8, 1910.

Application filed September 24, 1906. Serial No. 335,864.

To all whom it may concern:

Be it known that I, JAMES W. PATTERSON, of the city, county, and State of New York, have invented an Improvement in Vending-Machines, of which the following is a specification.

My invention has reference to vending machines and consists of certain improvements which are fully set forth in the following specification and shown in the accompanying drawings which form a part thereof.

The object of my invention is to provide a vending machine or box, more particularly adapted for use on opera chairs in theaters, which shall embody simplicity of construction and more especially be designed to require a manual operation to bring the article into position for removal upon the manipulation of the coin controlled lock.

My invention consists of a case provided with a lifting or riser frame adapted to be moved vertically by hand for the purpose of lifting the article to be vended sufficiently high above the top of the box that it may be grasped and extracted, combined with a lock to lock the riser against being lifted, and hand operated means for moving a coin and therewith operating the lock to release the riser.

My invention embodies a case combined with hand operated means for manually projecting the article from the opening in the case, and coin controlled means for controlling the hand operated means whereby the delivery of the article requires the successive manipulation of two hand operations, one being controlled by the other.

My invention also comprehends details of construction which, together with the features above specified, will be better understood by reference to the drawings, in which:—

Figure 1 is a vertical sectional elevation of a vending machine embodying my invention; Fig. 2 is a front elevation of the same with the front part of the coin controlled lock removed and the lower part in section; Fig. 3 is an elevation of the coin operating means of the lock and of the retainer; and Fig. 4 is a perspective view of the riser removed.

A is the case and is closed on all sides but the top as at C. At a distance below the top of the case is a hinged lid B which is adapted to close the entrance to the interior of the case, but which may be pushed open when the article and the riser is elevated. The lid B is arranged sufficiently low down that it cannot be reached to open it.

W is the riser and consists of a U-shaped frame conveniently fitting the interior of the case and adapted to slide vertically therein. This riser may be lifted by a handle W′ riveted to its bottom and extending through a slot A′ in the side of the case. The riser may be of any suitable shape so long as it supports the article and is provided or combined with an outwardly extending part by which to move it. The riser W is provided with upright guide walls, the front wall adjacent to the coin controlled lock being slotted as at W^2.

D is a locking plate and is movable transversely under the action of the coin. This plate has a backward extension E which acts as a locking bolt for riser W, holding it from being raised. As shown, the locking plate is upon the outside of the wall of the case and the backward extension E is upon the inside, it passing through a slot *e* in the wall of the case. The locking plate D is provided with a stud F against which the coin is forced for moving the plate to the left (Fig. 2) to release the riser.

A dog M is pivoted to the case and spring pressed by spring N to engage a notch on the locking plate, as shown, to keep it in locking position. This dog M has a projection *m* against which the coin is forced for depressing the dog and releasing the locking plate D just as the coin is forced against the part F of the locking plate. The coin is guided by a coin slot H H′ in the front plate G of the lock.

I is a notched disk which may be rotated by a knob or handle K extending to the outside of the plate G, as shown in Fig. 1. The coin is placed in the slot H at the top of the machine and passes downward until it is received in one of the notches of the disk. The rotation of this disk carries the coin past the pivoted pawl and then downward against the projection *m* of the dog M. This releases the locking plate D and a further movement of the disk carries the coin against the projection F of the locking plate and shifts the plate to release the riser. The coin now descends the slot H and is sustained by the retainer P. This retainer is locked in retaining position by tumblers Q and is normally forced into locking position by the spring T. To un-

lock or withdraw the retainer P, a pivoted lever R is employed. A suitably shaped key is adapted to enter the slot S and simultaneously lift the tumblers Q and move the lever R, with the result that the retainer P is drawn back and held there so long as the key remains in place. When the key is withdrawn the retainer P is forced back into retaining position by the spring T.

To lock the riser W, it is lowered, and then by a suitable key inserted in the slot L′ and pressing against the lug L on the locking plate, said plate is forced into locking position as shown. In this manner the lock is reset or locked by hand and unlocked by the coin.

A projection *d* may be formed on the locking plate and adapted to travel into the coin slot H to prevent a coin being inserted except when said locking plate is in locking position. This is important in this box because the interior of the box cannot be seen and the lid might be closed even when the case is empty.

The lid B performs the important function of keeping out the dust which would otherwise enter the case upon the article. It is evident that while the hinged lid B is preferable, it may be dispensed with as the article to be sold may be located so far down the case and so snugly fit it that it cannot be reached for theft. It is also evident that the box of the article to be vended might be provided with a metallic end to prevent perforation in an attempt to extract the same.

In the operation of the machine, the releasing of the riser W is one hand operation and the lifting of the riser is a second hand operation, the latter being controlled by the former.

This construction of box is inexpensive because it dispenses with the usual spring acting lifting frames which are necessary in those types of boxes which discharge from the top wholly under control of the coin controlled lock.

While I prefer the construction shown, the details thereof may be modified without departing from the spirit of the invention.

Having now described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. In a vending machine, the combination of a case, a hand operated reciprocatable riser within the case and having a hand operatable part extended to the outside of the case, and a lock for releasing the riser without moving it whereby the riser may be lifted at the will of the operator by the hand operatable part.

2. In a vending machine, the combination of a case open at the top, a movable lid for the case arranged within it at a distance from its top and shielded by the sides of the case so as to be inaccessible for opening, a hand operatable reciprocating riser within the case adapted to be moved toward the lid to open the same and lift the article to be vended and having a hand operatable part extended to the outside of the case, and a locking device for controlling the operation of the riser.

3. In a vending machine, the combination of a case open at its top, combined with a hand operated reciprocating riser within the case and guided by its interior walls and having a handle extending through the case to the outside, a locking device for locking the riser against being moved, arranged in front of the case and behind which the riser moves and hand operated means extending to the outside of the case for shifting the locking device to release the riser.

4. In a vending machine, the combination of a case open at its top, a movable device for normally closing the entrance to the case but which is free to be pushed upward for the discharge of the article, combined with a hand operated riser within the case and having a handle extending through the case to the outside, a locking device for locking the riser against being moved, and hand operated means for shifting the locking device to release the riser.

5. In a vending machine, a case, a riser to lift an article from the case normally resting within the case and resisting being raised and having a part extending through the case to the outside by which to manually lift it, and a lock upon the outside of the case having a part extending through the wall of the case to lock and unlock the riser to permit it to be held or to be manually raised as required.

6. In a vending machine, a case open at the top, combined with hand operated means for manually projecting the article from the case, and hand operated means for controlling the hand operated projecting means whereby the delivery of the article requires two successive hand operations the one being controlled by the other.

7. In a vending machine a deep case open at its upper part, combined with a gravity actuated unlockable lid arranged within the case at a considerable distance below the open end whereby it is shielded against being opened by hand, said lid normally assuming a closed position, and means carried by the case and having a hand controlled operative part for lifting the lid to open it upward.

8. In a vending machine a deep case open at its upper part, combined with an unlockable lid arranged within the case at a considerable distance below the open end whereby it is shielded against being opened by hand, said lid normally assuming a closed position, means carried by the case and hav-

ing an operative part for lifting the lid to open it upward, and a lock wholly independent of the lid for normally locking the operative part against being moved.

9. In a vending machine a deep case open at its upper part, combined with an unlockable lid arranged within the case at a considerable distance below the open end whereby it is shielded against being opened by hand, said lid normally assuming a closed position, means carried by the case and having an operative part for lifting the lid to open it upward, and a lock wholly independent of the lid having a hand actuated portion extending to the outside of the case for normally locking the operative part against being moved but releasing the operative part by the operation of the hand actuated portion.

In testimony of which invention, I hereunto set my hand.

JAMES W. PATTERSON.

Witnesses:
M. SALOSHIN,
M. OWENS.