

L. L. MARTIN.
 COIN CONTROLLED VENDING APPARATUS.
 APPLICATION FILED NOV. 21, 1907.

951,018.

Patented Mar. 1, 1910.

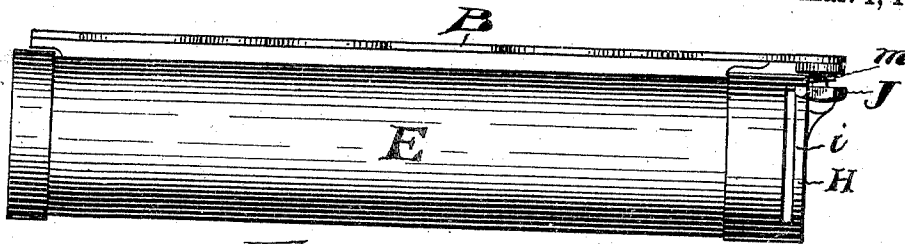


Fig. 1.

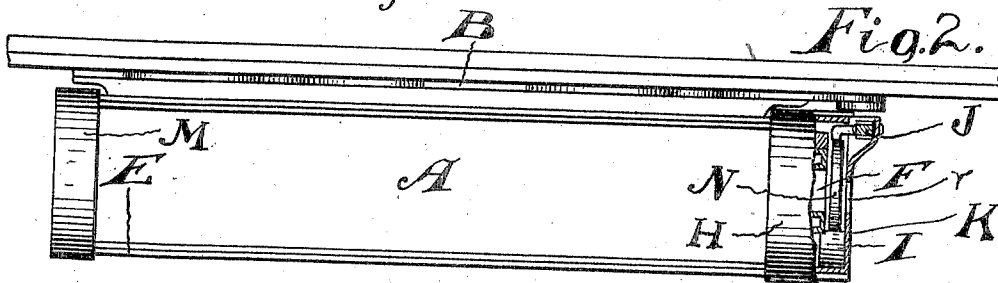


Fig. 2.

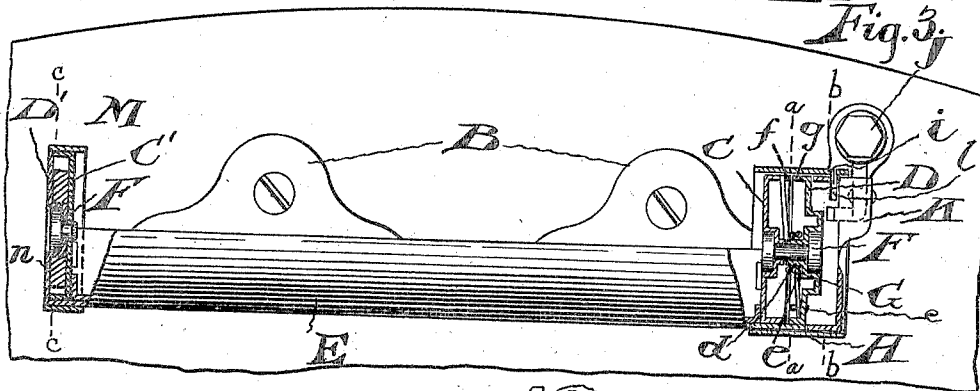


Fig. 3.

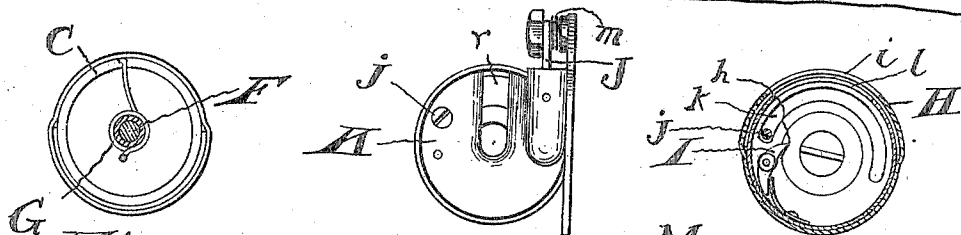


Fig. 4.

Fig. 5.

Fig. 6.

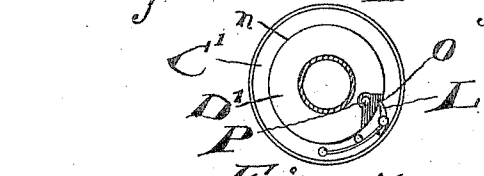


Fig. 7.

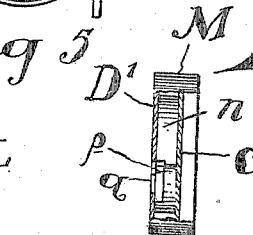


Fig. 8.

WITNESSES:
J. M. C. Lyndick
Rex. T. Brudman

INVENTOR.
 L. L. Martin.
 BY
Ridout & Mayhew
 ATTORNEYS.

UNITED STATES PATENT OFFICE.

LOUIS L. MARTIN, OF TORONTO, ONTARIO, CANADA, ASSIGNOR TO THE WORTH-MARTIN CO., LIMITED, OF TORONTO, CANADA.

COIN-CONTROLLED VENDING APPARATUS.

951,018.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, LOUIS L. MARTIN, of the city of Toronto, in the Province of Ontario, Canada, have invented certain new and useful Improvements in Coin-Controlled Vending Apparatus, of which the following is a specification.

My invention relates to apparatus adapted particularly for attachment to the chairs or seats of a public auditorium for the vending of confectionery. Such apparatus is required to make but one sale before refilling, but must be small, neat and inexpensive. I fulfil these requirements by means of a small tray provided with a spring actuated cover normally held closed by mechanism releasable after a coin has been inserted in the device, which cover is locked in its open position by key-releasable means, and is arranged to prevent the removal of the inserted coin until unlocked and again closed.

Figure 1 is a plan view of my device closed. Fig. 2 is a similar view of the device open. Fig. 3 is a front elevation partly in section. Fig. 4 is a section on the line *a-a* Fig. 3. Fig. 5 is an end view looking from the right hand side of Fig. 3. Fig. 6 is a section on the line *b-b* Fig. 3 with the cover closed. Fig. 7 is a section on the line *c-c* Fig. 5. Fig. 8 is an end view, partly in section, of the parts shown in Fig. 7.

In the drawings like letters of reference indicate corresponding parts in the different figures.

A is a tray provided with suitable lugs B by means of which it may be secured to the back of an opera chair or other convenient support. The tray is preferably semi-circular in form, as shown, and is preferably placed horizontal so that the articles to be vended need not be in package form, and need only be removed from the tray as required for use. The tray is preferably provided with end disks C, C', which are pivotally connected by the pivot pins F with disks D, D' forming the ends of a semi-circular cover E, and serving as rock arms. It is evident then that the tray may be opened or closed by a one-half revolution of the cover on the pivots F. A spring G is coiled around the hub *d* of the disk D and has one end secured by means of a pin *e* to said disk. The other end of the spring, when the apparatus is assembled, lies in the

notch *f* formed in the disk C'. For convenience in assembling the end of the spring is engaged with a notch *g* in the disk D, being pushed over into the notch *f* after the parts are assembled. A collar H fits over the disks C and D and is secured to the cover E in any suitable manner. A flanged end disk K is suitably formed on or secured to the lugs carrying the tray, and is also secured by means of a screw *j* to the disk C, passing through a semi-annular slot *h* in the disk D. A spring actuated dog I is pivoted on the disk C and engages the notch *h* in the disk D when the cover is in the closed position shown in Fig. 6. This dog extends out beyond the face of the disk D, and opposite to it is fulcrumed the push lever J. The outer end of this lever is in a convenient position for depression by the finger, and the inner end is so located that a coin N dropped through the coin-slot *i*, formed in the collar H and the slot *l* formed in the flange of the end disk K, will engage both the inner end of the push lever and the dog. Depression of the push lever will then disengage the dog I, and the cover, under the action of the spring G, will assume the open position shown in Figs. 2 and 3. As the collar H is secured to the cover the coin-slot *i* therein will no longer register with the coin-slot *l* in the flange of the disk K, and it is impossible to withdraw the coin until the cover has been again closed. The push lever J is maintained in its normal position by the coil spring *m* engaging its outer end.

In order that the coin be not withdrawn by unauthorized parties it is necessary to lock the cover E in its open position. For this purpose I pivot on the disk C' a spring actuated dog L which bears on the hub *n* of the disk D', which hub has a notch *o* formed therein with which the dog engages when the cover is open. (See Figs. 3 and 7). A keyhole *q* is formed in the disk D' and a pin *p* is formed in the hub *n*. A key may be inserted through the keyhole *q* to engage the pin *p*, and the key may then be turned to disengage the dog and allow the cover to be returned to its normal position, when the coin may be extracted by pressing with the finger through the slot *r* formed in the end disk K. A collar M is suitably secured to the end disk D' and serves to cover over the device for locking the cover open.

From the above description it will be seen that the device is very simple in its arrangement and yet it is not readily picked when used as it will be in a position subject to the scrutiny of a number of people.

After operation the contents of the device are exposed to view, and held in such a manner that it is merely necessary to remove the contents as they are required, the tray continuing to form a convenient receptacle.

While the locking open of the cover makes it impossible, under ordinary conditions, to remove the coin after the device has been operated, it also serves to show at a glance which of the devices have been emptied, thus greatly facilitating the keeping of the devices properly filled.

What I claim as my invention is:

1. In coin-controlled vending apparatus the combination of a tray; an oscillating cover for the tray concentric therewith; a lock engageable member carried by said cover; a locking member carried by the tray and adapted to engage the said lock engageable member; and manually-operable, coin-engaging means located adjacent to the locking member so that a coin of predetermined size introduced between said coin-engaging means and the locking member will form an operative connection between the two.

2. In coin-controlled vending apparatus the combination of a tray; an oscillating cover for the tray concentric therewith; a lock engageable member carried by said cover; a locking member carried by the tray and adapted to engage the said lock engageable member; manually-operable, coin-engaging means located adjacent to the locking member so that a coin of predetermined size introduced between said coin-engaging means and the locking member will form an operative connection between the two; and a spring tending to swing the cover to uncover the tray.

3. In coin-controlled vending apparatus the combination of a tray; an oscillating cover for the tray concentric therewith, a lock engageable member carried by said cover; a locking member carried by the tray and adapted to engage the said lock engageable member; manually-operable, coin-engaging means located adjacent to the locking member so that a coin of predetermined size introduced between said coin-engaging means and the locking member will form an operative connection between the two; a spring tending to swing the cover to uncover the tray; and key releasable means for automatically locking the cover open.

4. In a device of the character described, the combination of a tray provided with a locking member; an oscillating part concentric with said tray and swinging over the same to form a cover therefor, and under

the same to expose said tray, means normally tending to hold said part under the tray, a member carried by said oscillating part and engaged and held by the locking member of said tray when said oscillating part covers the tray; and manually-operable coin-engaging means located adjacent to the locking member so that a coin of predetermined size introduced between said coin-engaging means and the locking member will form an operative connection between the two.

5. In coin-controlled vending apparatus the combination of a tray; an oscillating cover for the tray concentric therewith; a lock engageable member carried by said cover; a locking member carried by the tray and adapted to engage the said lock engageable member; and coin-receiving means adapted to receive and hold a coin of predetermined size in position to be engaged with said locking member to release the same.

6. In coin-controlled vending apparatus the combination of a tray; an oscillating cover for the tray concentric therewith; a lock engageable member carried by said cover; a locking member carried by the tray and adapted to engage the said lock engageable member; coin-receiving means adapted to receive and hold a coin of predetermined size in position to be engaged with said locking member to release the same; and a spring tending to swing the cover to uncover the tray.

7. In coin-controlled vending apparatus the combination of a tray; an oscillating cover for the tray concentric therewith; a lock engageable member carried by said cover; a locking member carried by the tray and adapted to engage the said lock engageable member; coin-receiving means adapted to receive and hold a coin of predetermined size in position to be engaged with said locking member to release the same; a spring tending to swing the cover to uncover the tray; and key releasable means for automatically locking the cover open.

8. In a device of the character described, the combination of a tray provided with a locking member; an oscillating part concentric with said tray and swinging over the same to form a cover therefor, and under the same to expose said tray, means normally tending to hold said part under the tray, a member carried by said oscillating part and engaged and held by the locking member of said tray when said oscillating part covers the tray, and coin-receiving means adapted to receive and hold a coin of predetermined size in position to be engaged with said locking member to release the same.

9. In coin-controlled vending apparatus the combination of a tray; a cover for the

tray provided with arms journaled at opposite ends of the tray; and a coin-controlled lock for locking the cover closed provided with a coin-slot normally open, the cover, when in its open position, being adapted to close said slot.

10. In coin-controlled vending apparatus the combination of a tray; a cover for the tray provided with arms journaled at opposite ends of the tray; a coin-controlled lock for locking the cover closed provided with a coin-slot normally open, the cover, when in its open position, being adapted to close said slot; a spring tending to open said cover; and key releasable means for automatically locking the cover open.

11. In coin-controlled vending apparatus the combination of a tray; an oscillating cover for the tray concentric therewith and having a notched disk at one end; a spring

actuated dog carried by the tray and adapted to engage the notch; a push lever suitably fulcrumed and having one end located opposite the dog so that a coin of predetermined size introduced between the dog and the lever end will form an operating connection between the two.

12. In coin-controlled vending apparatus the combination of a tray; a movable cover therefor; a coin-controlled lock for locking said cover closed provided with a coin slot normally open; key releasable means for automatically locking the cover open; the cover when in its open position being adapted to close said slot.

Toronto, Ont., 21st November, 1907.

LOUIS L. MARTIN.

Signed in the presence of—

J. EDW. MAYBEE,

F. W. MCKENDRICK.