Jan. 15, 1929.

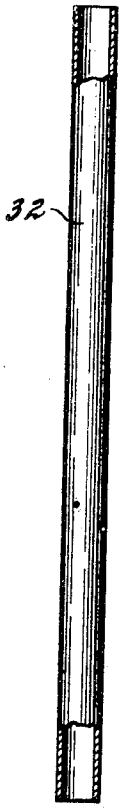
1,699,476

L. H. MORIN

VENDING MACHINE

Filed Aug. 7, 1926

Fig. 4.



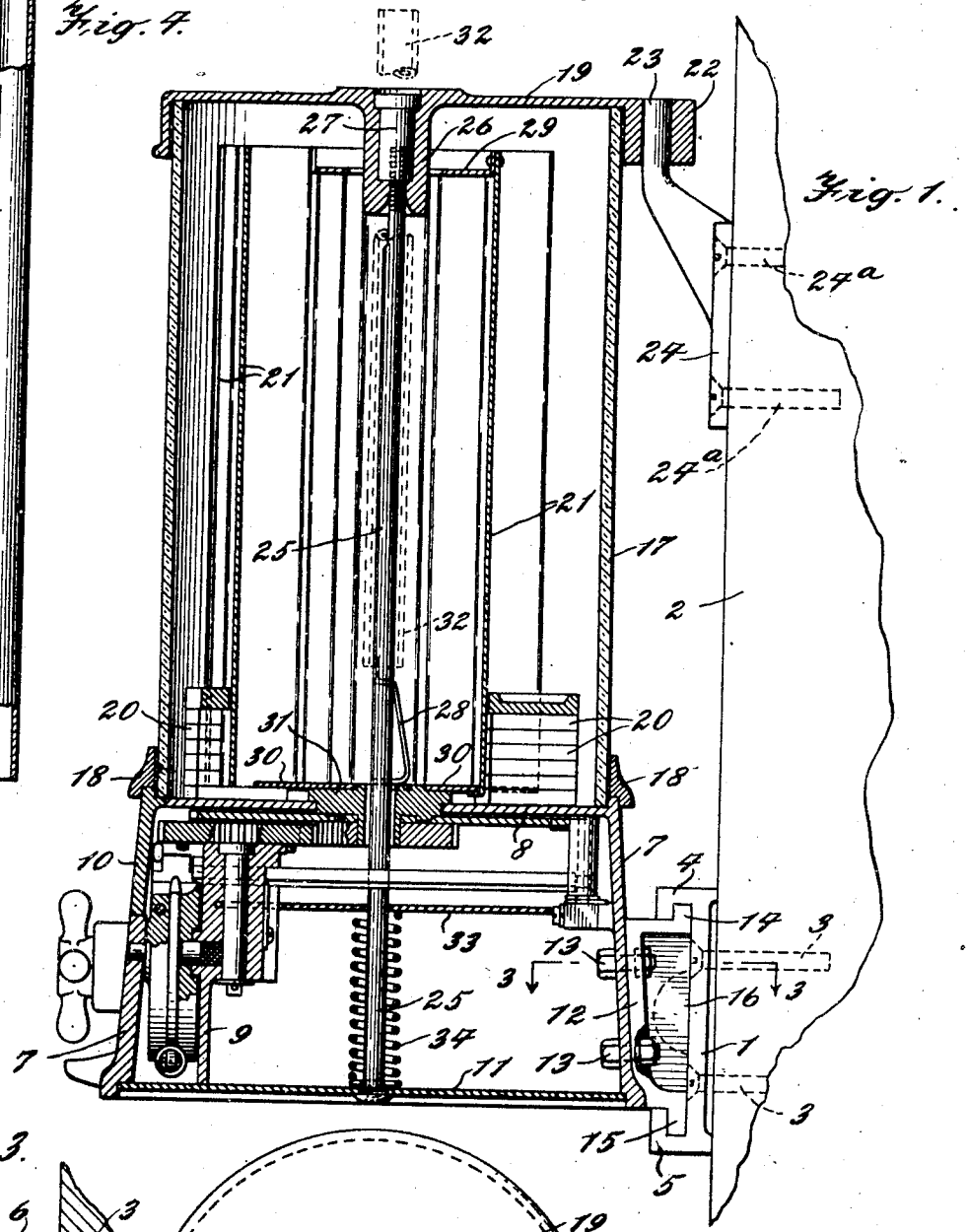
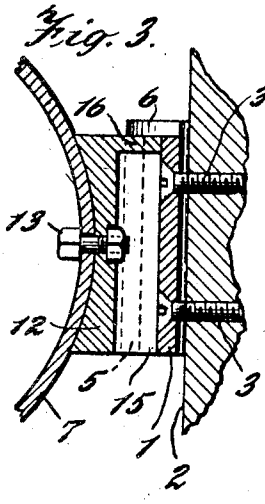


Fig. 1.

Fig. 3.



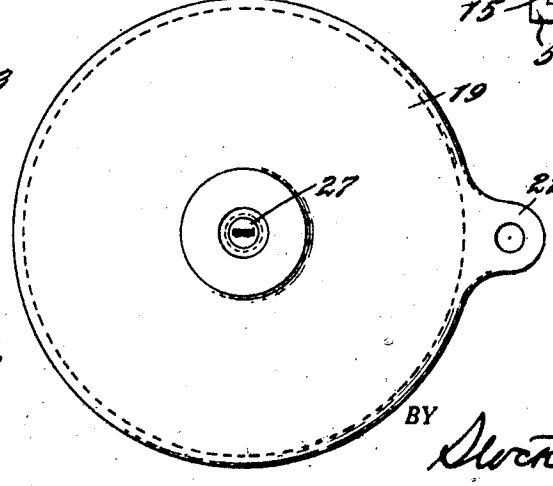


Fig. 2.

INVENTOR.
Louis H. Morin
BY
Dorsey & Brown
ATTORNEYS.

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UNITED STATES PATENT OFFICE.

LOUIS H. MORIN, OF NEW YORK, N. Y., ASSIGNOR TO DOEHLER DIE-CASTING COMPANY, A CORPORATION OF NEW YORK.

VENDING MACHINE.

Application filed August 7, 1926. Serial No. 127,832.

Heretofore it has been common to mount a vending machine removably upon a wall bracket and to secure it thereto by means of a padlock to prevent the machine from being stolen, the casing of the machine itself being separately locked in closed condition to prevent the theft of goods and money therefrom. A commonly used type of vending machine has a strong base part or lower casing section forming a chamber in which the coins are received and also containing therein the coin controlled mechanism, and has an upright magazine chamber formed by an upper casing part superimposed upon such lower casing part and separably secured thereto so as to be readily removable therefrom, thereby to open the magazine chamber for replenishing the stock of articles to be vended. Machines of this type have commonly heretofore been supported from their strong base section by means of a single wall bracket, the machine as a whole having no other support than that afforded by this bracket. In such a construction it has been found that a person grasping the top of the magazine section can, by reason of the leverage thus obtained, exert sufficient force to break the bracket connection of the machine with the wall, several machines having been lost in this way. Commonly heretofore the lock which prevented the opening of the magazine also served as a means for holding a bottom closure for the base section in closed position, this lock providing the only support for such bottom closure, which opens downwardly and commonly forms a money pan for the coins, so that when this lock is unlocked the bottom closure has to be held up by the hand to prevent its dropping open and scattering the coins upon the floor.

An object of this invention is to provide a construction which will render it substantially impossible to break the machine from the wall. Another object of the invention is to provide a construction in which a single lock may be utilized for locking the machine to its supporting means and for locking the machine casing in a closed condition, thereby saving the expense of an additional lock such as heretofore has been employed for locking the machine as a whole to a support such as a wall bracket. Another object of the invention is to provide a construction in which the money-supporting bottom of the casing base will be held closed when the lock is unlocked. Other objects and advantages of the invention will hereinafter appear.

In carrying out my invention I have embodied it in a vending machine which in other respects is substantially of the same construction as that shown in my prior copending application for patent, Serial No. 39,442, filed June 25, 1925. According to the present invention the lower or base part of the vending machine casing has removable connection or engagement with a lower supporting bracket and the upper or magazine part of the vending machine casing has a separable connection or engagement with an upper reinforcing or bracing bracket, the construction and arrangement of these brackets and their connections to the respective casing parts being such that the lower or base casing part cannot be disconnected or disengaged from the lower wall bracket until after the upper casing part or magazine part has been disconnected or disengaged from the upper wall bracket. Also according to this invention the construction and relation of the casing parts and brackets are such that the securing means, including a single lock heretofore employed to prevent unauthorized access to the magazine chamber as well as to the coin chamber in the casing base, now serves also to prevent the unauthorized removal of the machine as a whole from its wall brackets. Furthermore, according to and as a feature of the invention means are provided which, when the lock is unlocked to permit the removal of the machine from its brackets or for replenishing the magazine, are effective for releasably maintaining the bottom closure of the coin chamber in its closed condition. The invention further includes various features of construction and combinations of parts as will appear from the following description.

The embodiment of the invention shown in the accompanying drawings will now be described and thereafter the invention will be pointed out in claims, reference now being had to the drawings in which:

Fig. 1 is a substantially central vertical section, with parts in elevation, of a vending machine embodying my invention;

Fig. 2 is a plan view of the top or upper end of the magazine part of the vending machine casing;

Fig. 3 is a partial horizontal section on the line 3—3 of Fig. 1; and

Fig. 4 is an elevation, partly in central vertical section, of a simple tool which may be conveniently used for releasing a spring catch which, until released, prevents the bottom closure of the coin-containing chamber in the casing base from opening of its own accord when the combined casing and bracket lock is unlocked.

The vending machine construction by which the invention is carried out according to the embodiment thereof illustrated in the accompanying drawings will now be particularly described. A strong lower wall bracket 1 which supports the weight of the entire machine is firmly and rigidly secured to the wall 2 or to a similar part by means of attaching screws 3 shown (Figs. 1 and 2) as four in number which pass through the flat attaching plate of the bracket and have their flat heads countersunk therein. The bracket 1 has upper and lower horizontally extending gibs 4 and 5 providing a transverse laterally extending guideway and is provided with a stop lug 6 forming an abutment at one end of this guideway.

The casing base of the vending machine shown in the drawings comprises an enclosing side wall 7 which may be for the most part circular in horizontal cross-section (Fig. 3) and which is shown as slightly tapering upwardly. This wall 7, for strength and rigidity, may be a suitable casting such as a die-casting. The casing base is closed at its top by a flat wall 8 shown as formed in one piece with the side wall 7, and a forwardly located vertical partition wall 9 may also be cast in one piece with the side wall 7. An upwardly removable front slide 10 may be guided in the main wall part 7. An openable closure for the casing base is shown as a bottom wall or plate 11 which fits removably within and against a shoulder formed on the lower end of the side wall 7 and is removably held in place by means presently to be described.

The casing base wall 7 is provided with means to have removable engagement with the wall bracket 1. In the construction shown in the drawings a bracket-engaging member 12 is secured to the lower part of the casing wall 7 by means of a pair of machine bolts 13 having their heads at the inside of this wall and their nuts countersunk into the attaching plate of the member 12 in recesses to fit the nuts whereby the nuts cannot be unscrewed, and the bolts 13 are inaccessible for unauthorized removal. This bracket member 12 has upper and lower rearwardly projecting parallel walls provided respectively with upwardly and downwardly projecting flanges 14 and 15 to be engaged respectively with the upper and lower gibs 4 and 5 of the wall bracket 1, with which the flanges 14 and 15 together with the adjacent wall portions of the bracket 1 and bracket-engaging member 12 have a snug sliding fit as shown in Fig. 1. The bracket member 12 is provided with an end wall 16 forming a stop to abut against the stop lug 6 when the bracket member 12 is fitted into the bracket 1. The lengths of the interengaging guide surfaces on the member 12 and bracket 1 are sufficient to prevent any substantial angular movement of the bracket-engaging member 12 on the wall bracket 1 so that thereby the machine as a whole will be firmly and rigidly yet removably supported on the wall bracket 1. The making of the bracket-engaging member 12 as a separate piece and securing it to the casing base wall 7 facilitates manufacture and also permits the use of the same casing base part 7 on other vending machines which are not provided with wall brackets, as well as providing for attaching this engaging member 12 wherever desired around the base 7.

The magazine part or section of the vending machine shown in the drawings as an embodiment of the invention comprises a circumferentially complete upright glass cylinder 17, a metal ring 18 secured upon the lower end thereof and a metal top closure or cover 19 flanged over the upper end of this cylinder, the ring 18 and the cover 19 being secured to the cylinder by means of a suitable adhesive, such, for example, as litharge, as is clearly shown in Fig. 1. The lower edge of the glass cylinder 17 removably rests upon the peripheral margin of the casing base top wall 8 and similarly upon an inner flange provided on the front slide 10, just within a bead provided as an upward extension of the main wall 7 and on the upper edge of the slide 10, while the ring 18 is shouldered and flanged as shown in Fig. 1 to fit over this bead, whereby this ring assists in forming a seal, strengthens the glass cylinder 17 and at the same time provides a neat finish. The flat top wall 8 which closes the upper end of the casing base chamber forms a floor or bottom closure for the magazine chamber upon which the articles or packages 20 to be vended, such, for example, as chewing gum, may rest and be carried around in the vertical channels provided between projecting wings formed by strips 21 of a rotatable magazine member.

The securing of the magazine top 19 to the magazine cylinder 17, for example, by means of adhesive as shown and described, enables the entire magazine casing part or section to be lifted off as a unit for convenience in replenishing the magazine chamber. However, it is to be understood

as within the scope of the invention to omit the securing means, such as the adhesive, between the top or cover 19 and the magazine cylinder 17, in which case these parts would be separable. Also it is to be understood as being within the scope of the invention to form the magazine cylinder 17 and its top cover 19 in a single piece of a suitable material, which could be metal. This magazine chamber or casing part is firmly but removably secured in place upon the above described casing base part by means presently to be described.

The magazine top 19 may be a casting such as a die-casting and at its margin this top is provided with a horizontally projecting bracket-engaging lug 22 shown as vertically apertured and as cast in the same piece with the magazine cover 19. The aperture in this lug 22 receives the upwardly projecting end of a bracket arm 23 on an upper wall bracket 24 which is firmly and rigidly secured to the wall 2 by means of attaching screws 24ª, as shown in Fig. 1. It will be evident that the upper wall bracket 24 by reason of the engagement of its bracket arm 23 in the lug 22 will effectively serve as a brace at the very top of the machine to prevent the top of the machine being pulled away from the wall 2, with the consequent breaking of the lower bracket connection, comprising the lower wall bracket 1 and the bracket-engaging member 12, by reason of the strong leverage thus obtained. The lower wall bracket 1 prevents the lifting of the machine in order thereby to disengage it from the upper wall bracket 24, while this upper bracket 24 prevents the machine being slid sideways out of the lower bracket 1 even by means of an angular movement by reason of the fact that this strong lower bracket 1, as above noted, prevents such angular movement therein of the bracket-engaging member 12, which would then bind and become locked in the bracket 1, as will be readily understood by an inspection of Fig. 1 in connection with Fig. 3 of the drawings.

The bottom closure plate 11 of the casing base chamber is removably held in place and the magazine chamber is removably held upon this casing base chamber by means of a vertical shaft or tie-rod 25 having a head below the bottom closure 11 through which this rod is squared and passes centrally upward through the intermediate plate 8 and into a depending boss 26 cast centrally upon the lower or inner side of the cover 19 of the magazine. The boss 26 has a bore through it which is outwardly enlarged and shouldered and has seated therein a suitable lock 27 which releasably engages the upper end of the tie-rod 25 and may be unlocked by means of a key. When it is desired to remove the machine as a whole from its wall brackets 1 and 24 it is necessary first to unlock the lock 27. This being done, then the magazine casing part may be lifted off or raised sufficiently to clear the apertured lug 22 from the bracket arm 23, after which the machine may be moved sideways to slide the lower bracket-engaging member 12 out of the lower bracket 1. Similarly, for replenishing the magazine the lock 27 is unlocked and the entire magazine casing part or section is then lifted off as a unit. Likewise, by reason of the fact, as above noted, that the locked tie-rod 25 holds the bottom closure 11 of the lower casing part in the closed and locked condition, in order to gain access to this lower chamber for the removal of accumulated coins, which are commonly received upon this bottom plate 11, which forms a money pan, it becomes necessary first to unlock the lock 27. It will thus be seen, in the construction as so far described, that this single lock 27 together with the tie-rod 25 locked thereby will prevent unauthorized access to the magazine chamber or to the coin chamber, and also locks the machine casing as a whole to the wall brackets 1 and 24 against unauthorized removal of the machine, thereby preventing theft of articles from the magazine, the stealing of money from the machine, and the theft of the machine as a whole.

By reason of the fact, as above noted, that the tie-rod 25 holds the bottom closure 11 of the coin chamber both closed and locked, it becomes evident, were nothing further provided, that when the lock 27 is unlocked, either for removing the machine from its wall brackets or for replenishing the magazine, this tie-rod 25 would be free to drop down and the botom closure 11 would drop out, thereby scattering the coins upon the floor, unless the bottom closure 11 be then held in place by means of the hand placed beneath it, which obviously would be quite inconvenient to do while taking off the magazine cylinder 17 and has proved so in experience. Therefore, in carrying out the present invention in accordance with the embodiment thereof shown in the drawings, means are provided for supporting in closed condition the money pan formed by the bottom closure 11 when the lock 27 is unlocked, such bottom supporting means, however, being readily releasable when it is desired to have access to the coin chamber.

According to this feature of the invention as shown in the accompanying drawings the tie-rod 25 carries an automatically engaging manually releasable spring latch or snap catch 28 shown as made from a piece of suitably bent spring wire firmly anchored at its upper end in the rod 25 from which it normally extends downwardly at an outward inclination and which has its lower end bent

inwardly at substantially right angles to enter freely a hole provided through the rod 25, shown in Fig. 1.

In the particular vending machine shown in the drawings the delivery mechanism or vending mechanism, parts of which are shown in Fig. 1, and the coin controlled operating mechanism, parts of which also appear in this figure, may be and are shown as of substantially the same construction as is disclosed in my above mentioned prior application for patent. In this construction the upper ends of the channel-forming strips 21 are secured to and tied together by an upper plate 29 through which the lock-containing boss 26 may loosely pass, and the lower ends of these channels 21 are secured to a lower plate 30 which is fixed upon the top of and to be rotated by a rotatable disc 31 having a peripheral flange overlying the magazine bottom 8 and a peripherally reduced lower portion journaled therein, as shown in Fig. 1. This rotatable disc 31 is shown as provided with a slight upper boss over which the lower magazine plate 30 fits and with a longer lower or depending boss. This disc 31 has through it a central bore or aperture through which the tie-rod 25 passes with sufficient freedom or looseness to provide for the passage of the spring wire catch or latch 28, which is located on this rod in a position to engage immediately above the upper boss of the rotatable disc 31 and may also engage the adjacent portion of the lower magazine plate 30. It will be clear from Fig. 1 that when the tie-rod 25 is pushed upwardly through rotatable disc 31, the spring catch 28 will be pushed in thereby and will automatically snap to its engaging position above the disc 31 and plate 30, thereby to maintain the bottom closure plate 11 of the coin chamber in closed condition after the lock 27 has been unlocked.

This spring catch 28 may be readily manually released when desired by means of a simple tool 32 which may be, as shown in Fig. 4 and as indicated in broken lines in Fig. 1, a piece of ordinary pipe of the proper length and diameter to fit down over the upper end of the tie-rod 25 after the magazine cover 19 has been removed, the lower end of this pipe 32 being pushed down to a point adjacent the upper surface of the lower magazine plate 30 and operating to disengage the spring catch 28 so that the tie-rod 25 may then be withdrawn for opening the bottom 11 of the coin chamber in the lower casing part of the machine, as will be readily understood from an inspection of Fig. 1. A transverse guard plate 33, held in place in the casing wall 7 by means of a coiled thrust spring 34 surrounding the tie-rod 25, is provided to prevent coins from falling into the operating mechanism should the machine while being handled be tipped to a more or less inverted position. Obviously this spring 34, in addition to gravity, has a constant tendency to open the bottom closure 11, and is restrained from doing this by the catch 28 when the lock 27 is unlocked.

It is obvious that various modifications may be made in the construction shown in the drawings and above particularly described, within the principle and scope of my invention as defined in the appended claims.

I claim:

1. A vending machine construction comprising an enclosing casing including two openable closures therefor, supporting means for the casing, and releasable securing means for the closures and the casing as a unit including a single lock for locking both closures closed and for locking the casing as a whole on the supporting means.

2. A vending machine construction comprising an enclosing casing including openable top and bottom closures, supporting means for the casing, and releasable securing means for the closures and the casing as a unit including a single lock for locking both closures closed and for locking the casing as a whole to the supporting means.

3. A vending machine construction comprising an enclosing casing including a lower part or section and an upper part or section to be separated, a lower wall bracket provided with a transverse guideway, a bracket-engaging member fixedly carried by the lower part of the casing to have therewith removable transverse sliding engagement with the guideway of the bracket while held thereby against vertical and angular movement, an upper wall bracket providing a substantially vertical guide, an upper bracket-engaging member fixedly carried by the upper casing part to be moved therewith downward into engagement with the upper bracket and to be moved upward out of engagement with this bracket, and means including a single lock for separably securing together the upper and lower parts of the casing for thereby locking the casing as a whole to said wall brackets and at the same time locking the casing parts together.

4. A vending machine construction comprising a coin chamber closed at its upper end, a downwardly opening closure for the lower end of the coin chamber, a magazine chamber closed at its top removably supported upon and closed at its bottom by the closed upper end of the coin chamber, a lower wall bracket providing a transverse guideway, a bracket-engaging member fixedly carried by the coin chamber to have therewith removable transverse sliding engagement with the wall bracket, an upper wall bracket providing a substantially ver-

tical guide, a bracket-engaging member fixedly carried by the magazine chamber to have therewith downward movement to engage the upper wall bracket and upward bracket-disengaging movement, and releasable securing means to hold the bottom of the coin chamber closed and to hold the magazine chamber in closed condition upon the coin chamber so as thereby to maintain the casing as a whole in engagement with the wall brackets, said securing means including a single lock for rendering such means effective or ineffective and whereby this lock prevents unauthorized access to the coin chamber and to the magazine chamber and also prevents unauthorized removal of the machine from the wall brackets.

5. A vending machine construction comprising a coin chamber having an enclosing side wall closed at its upper end, a downwardly opening closure for the lower end of the coin chamber, a magazine chamber closed at its top removably supported upon and closed at its bottom by the closed upper end of the coin chamber, a lower wall bracket providing a laterally transverse guideway, a bracket-engaging member fixedly carried by the side wall of the coin chamber to have therewith removable laterally transverse sliding engagement with the wall bracket, an upper wall bracket providing a substantially vertical guide, a bracket-engaging member fixedly carried by the magazine chamber to have therewith downward movement to engage the upper wall bracket and upward bracket-disengaging movement, and releasable securing means to hold the bottom of the coin chamber closed and to hold the magazine chamber in closed condition upon the coin chamber so as thereby to maintain the casing as a whole in engagement with the wall brackets, such securing means comprising a tie-rod extending vertically through the interior of the casing to engage the bottom closure of the coin chamber and the top closure of the magazine, and a lock for releasably engaging one end of the tie-rod and whereby this lock will prevent unauthorized access to the coin chamber and to the magazine chamber and also prevents unauthorized removal of the machine from the wall brackets.

6. A vending machine construction comprising a coin chamber having an enclosing side wall closed at its upper end, a downwardly opening closure for the lower end of the coin chamber, a magazine chamber closed at its top removably supported upon and closed at its bottom by the closed upper end of the coin chamber, a lower wall bracket providing a transverse guideway, a bracket-engaging member fixedly carried by the side wall of the coin chamber to have therewith removable transverse sliding engagement with the wall bracket, an upper wall bracket providing a substantially vertical guide, a bracket-engaging member fixedly carried by the magazine chamber to have therewith downward movement to engage the upper wall bracket and upward bracket-disengaging movement, releasable securing means to hold the bottom of the coin chamber closed and to hold the magazine chamber in closed condition upon the coin chamber so as thereby to maintain the casing as a whole in engagement with the wall brackets, said securing means including a single lock for rendering such means effective or ineffective and whereby this lock prevents unauthorized access to the coin chamber and to the magazine chamber and also prevents unauthorized removal of the machine from the wall brackets, and a manually operable catch to hold the bottom of the coin chamber closed when the said lock is unlocked.

7. A vending machine construction comprising a coin chamber having an enclosing side wall closed at its upper end, a downwardly opening closure for the lower end of the coin chamber, a magazine chamber closed at its top removably supported upon and closed at its bottom by the closed upper end of the coin chamber, a lower wall bracket providing a transverse guideway, a bracket-engaging member fixedly carried by the side wall of the coin chamber to have therewith removable transverse sliding engagement with the wall bracket, an upper wall bracket providing a substantially vertical guide, a bracket-engaging member fixedly carried by the magazine chamber to have therewith downward movement to engage the upper wall bracket and upward bracket-disengaging movement, releasable securing means to hold the bottom of the coin chamber closed and to hold the magazine chamber in closed condition upon the coin chamber so as thereby to maintain the casing as a whole in engagement with the wall brackets, such securing means comprising a tie-rod connected at its lower end to the bottom closure of the coin chamber and extending upward through the interior of the casing to the top closure of the magazine, a lock for releasably holding together the upper end of the tie-rod and the top closure of the magazine, and a manually operable catch to hold the tie-rod in place and thereby maintain the bottom of the coin chamber closed when the lock is unlocked.

8. A vending machine construction comprising a coin chamber having an enclosing side wall closed at its upper end, a downwardly opening closure for the lower end of the coin chamber, a magazine chamber closed at its top removably supported upon and closed at its bottom by the closed upper end of the coin chamber, a lower wall bracket providing a transverse guideway, a bracket-engaging member fixedly carried by the side

wall of the coin chamber to have therewith removable transverse sliding engagement with the wall bracket, an upper wall bracket providing a substantially vertical guide, a bracket-engaging member fixedly carried by the magazine chamber to have therewith downward movement to engage the upper wall bracket and upward bracket-disengaging movement, releasable securing means to hold the bottom of the coin chamber closed and to hold the magazine chamber in closed condition upon the coin chamber so as thereby to maintain the casing as a whole in engagement with the wall brackets, such securing means comprising a tie-rod to engage and support the bottom closure of the coin chamber and extending up through the interior of the casing to the top closure of the magazine, a lock for releasably connecting the upper end of the tie-rod to the top closure of the magazine, and a manually releasable snap catch carried by the tie-rod automatically to engage above the closed top of the coin chamber thereby to support the tie-rod together with the bottom of the coin chamber when the lock is unlocked.

9. A vending machine construction comprising a coin chamber closed at its upper end, a downwardly opening closure for the lower end of the coin chamber, a magazine chamber closed at its top separably supported upon and closed at its bottom by the closed upper end of the coin chamber, a lower wall bracket providing a transverse guideway, a bracket-engaging member fixedly carried by the coin chamber to have therewith removable transverse sliding engagement with the wall bracket, an upper wall bracket providing a substantially vertical guide, a bracket-engaging member fixedly carried by the magazine chamber to have therewith downward movement to engage the upper wall bracket and upward bracket-disengaging movement, releasable securing means including a manually operable catch to hold the bottom of the coin chamber closed, said catch being located within the magazine chamber so as to be accessible for manual operation only when the magazine chamber is opened, and releasable securing means including a single lock to hold the magazine chamber in closed condition upon the coin chamber so as thereby to maintain the casing as a whole in engagement with the wall brackets and whereby this lock prevents unauthorized access to the magazine chamber and to the coin chamber and also prevents unauthorized removal of the machine from the wall brackets.

10. A vending machine construction comprising a coin chamber closed at its upper end, a downwardly opening closure for the lower end of the coin chamber, a magazine chamber closed at its top removably supported upon and closed at its bottom by the closed upper end of the coin chamber, a lower wall bracket providing a transverse guideway, a bracket-engaging member fixedly carried by the coin chamber to have therewith removable transverse sliding engagement with the wall bracket, an upper wall bracket providing a substantially vertical guide, a bracket-engaging member fixedly carried by the magazine chamber to have therewith downward movement to engage the upper wall bracket and upward bracket-disengaging movement, releasable securing means including a single lock to hold the magazine chamber in closed position upon the coin chamber so as thereby to maintain the casing as a whole in engagement with the wall brackets, and securing means including an automatically engaging manually releasable snap catch to hold the bottom of the coin chamber closed located within the magazine chamber so as to be accessible for release only when the magazine chamber has been opened.

11. In a vending machine, the combination of an enclosing casing comprising a lower casing part and an upper casing having engaging relation so as to be separated only by relative vertical movement, a lower wall bracket providing a substantially horizontal guideway shaped to prevent other than lateral sliding movement, a bracket-engaging member on the lower casing part shaped to have removable substantially horizontal sliding engagement only with the guideway of the bracket and to be held by said guideway against other than sliding movement relatively thereto, an upper wall bracket to form a brace above the said lower bracket and providing a substantially vertical guide, and an upper bracket-engaging member on the upper casing part to have downward movement therewith for slidingly engaging the vertical guide formed by the upper wall bracket and to be disengaged by upward movement of the upper casing part away from the lower casing part thereby to provide for the removal of the lower casing part from the lower wall bracket.

12. In a vending machine, the combination of a lower casing part forming a coin chamber, an upper casing part forming a magazine chamber separably superimposed upon the lower casing part, a lower wall bracket forming a substantially horizontal guideway, an upper wall bracket forming a substantially vertical guideway, a bracket-engaging member on and rigid with the lower casing part engageable with the guideway of the lower wall bracket to be held thereby against both vertical and angular movements, an upper bracket-engaging member on and rigid with the upper casing part and engageable with the vertical guide-

way of the upper wall bracket thereby to prevent the disengagement of the said lower bracket-engaging member from the lower wall bracket, and means including a lock to secure the upper casing part to the lower casing part thereby to prevent disengagement of the upper bracket-engaging member from the upper wall bracket until the lock has been unlocked.

13. In a vending machine, the combination of a lower casing part forming a coin chamber closed at its upper end, an upright upper casing part forming a magazine chamber to rest upon and be closed at its lower end by the top closure of the coin chamber and comprising a horizontally peripherally continuous glass side enclosing wall having a metal top wall fixed to its upper end to form a unit therewith, a lower wall bracket to support the weight of the machine, means on the lower casing part for engaging this bracket, an upper wall bracket to brace the machine, means on the metal cover of the magazine to engage the latter bracket, and releasable means independent of said glass enclosing wall for securing the metal top wall of the magazine to the lower casing part.

14. In a casing construction for a coin-controlled vending machine, the combination of a casing closure to be opened to give access to the magazine, a casing closure to be opened to give access to the accumulated coins, a support for the casing, a manually operable latch for one of the closures which can be released only after the other closure has been opened, and a lock for the latter closure which also locks the casing to the said support.

15. In a casing construction for a coin-controlled vending machine, the combination of a lower closure for the casing to be opened to give access to the accumulated coins, an upper closure for the casing to give access to the magazine for replenishing the latter, a support for the casing, a manually releasable latch for the lower closure which is inaccessible for release until the upper closure has been opened, and a lock for the latter closure which also locks the casing to said support.

16. A vending machine construction comprising a coin chamber having an enclosing side wall closed at its upper end, a downwardly opening closure for the lower end of the coin chamber, a magazine chamber closed at its top removably supported upon and closed at its bottom by the closed upper end of the coin chamber, releasable securing means to hold the bottom of the coin chamber closed and to hold the magazine chamber in closed condition upon the coin chamber, said securing means including a single lock for rendering such means effective or ineffective and whereby this lock prevents unauthorized access to the coin chamber and to the magazine chamber, and securing means including a manually operable latch to hold the bottom of the coin chamber closed when the said lock in unlocked located within the magazine chamber so as to be accessible for manual operation only when the magazine chamber has been opened.

17. A vending machine construction comprising a coin chamber having an enclosing side wall closed at its upper end, a downwardly opening closure for the lower end of the coin chamber, a magazine chamber closed at its top removably supported upon and closed at its bottom by the closed upper end of the coin chamber, releasable securing means to hold the bottom of the coin chamber closed and to hold the magazine chamber in closed condition upon the coin chamber, such securing means comprising a tie-rod connected at its lower end to the bottom closure of the coin chamber and extending upward through the interior of the casing to the top closure of the magazine, a lock for releasably holding together the upper end of the tie-rod and the top closure of the magazine, and a manually operable latch to hold the tie-rod in place and thereby maintain the bottom of the coin chamber closed when the lock is unlocked.

18. A vending machine construction comprising a coin chamber having an enclosing side wall closed at its upper end, a downwardly opening closure for the lower end of the coin chamber, a magazine chamber closed at its top removably supported upon and closed at its bottom by the closed upper end of the coin chamber, releasable securing means to hold the bottom of the coin chamber closed and to hold the magazine chamber in closed condition upon the coin chamber, such securing means comprising a tie-rod to engage and support the bottom closure of the coin chamber and extending up through the interior of the casing to the top closure of the magazine, a lock for releasably connecting the upper end of the tie-rod to the top closure of the magazine, and a manually releasable snap catch carried by the tie-rod automatically to engage above the closed top of the coin chamber thereby to support the tie-rod together with the bottom of the coin chamber when the lock is unlocked.

19. A vending machine construction comprising a coin chamber closed at its upper end, a downwardly opening closure for the lower end of the coin chamber, a magazine chamber closed at its top removably supported upon and closed at its bottom by the closed upper end of the coin chamber, releasable securing means including a single lock to hold the magazine chamber in closed position upon the coin chamber, and securing means including a manually releasable snap catch to hold the bottom of the coin

chamber closed located within the magazine chamber so as to be accessible for release only when the magazine chamber has been opened.

20. A vending machine construction comprising a coin chamber having an enclosing side wall closed at its upper end, a downwardly opening closure for the lower end of the coin chamber, a magazine chamber closed at its top removably supported upon and closed at its bottom by the closed upper end of the coin chamber, a support for the casing as a whole connected to the side wall of the coin chamber so as to leave the bottom closure thereof free for unobstructed opening movement, releasable securing means to hold the bottom of the coin chamber closed and to hold the magazine chamber in closed condition upon the coin chamber, said securing means including a single lock for rendering such means effective or ineffective and whereby this lock prevents unauthorized access to the coin chamber and to the magazine chamber, and securing means including an automatically engaging manually releasable snap catch to hold the bottom of the coin chamber closed when the said lock is unlocked located within the magazine chamber so as to be accessible for release only when the magazine chamber has been opened.

21. A vending machine construction comprising a coin chamber having an enclosing side wall closed at its upper end, a downwardly opening closure for the lower end of the coin chamber, a magazine chamber closed at its top removably supported upon and closed at its bottom by the closed upper end of the coin chamber, a support for the machine connected to the side wall of the coin chamber to leave the bottom closure thereof free for opening movement, releasable securing means to hold the bottom of the coin chamber closed and to hold the magazine chamber in closed condition upon the coin chamber, such securing means comprising a tie-rod connected at its lower end to the bottom closure of the coin chamber and extending upward through the interior of the casing to the top closure of the magazine, a lock for releasably holding together the upper end of the tie-rod and the top closure of the magazine, and a manually operable catch to hold the tie-rod in place for thereby maintaining the bottom of the coin chamber closed when the lock is unlocked.

22. A vending machine construction comprising a coin chamber having an enclosing side wall closed at its upper end, a downwardly opening closure for the lower end of the coin chamber, a magazine chamber closed at its top removably supported upon and closed at its bottom by the closed upper end of the coin chamber, a support for the machine connected to the side wall of the coin chamber to leave the bottom closure thereof free for opening movement, releasable securing means to hold the bottom of the coin chamber closed and to hold the magazine chamber in closed condition upon the coin chamber, such securing means comprising a tie-rod to engage and support the bottom closure of the coin chamber and extending up through the interior of the casing to the top closure of the magazine, a lock for releasably connecting the upper end of the tie-rod to the top closure of the magazine, and a manually releasable snap catch carried by the tie-rod automatically to engage above the closed top of the coin chamber thereby to support to tie-rod together with the bottom of the coin chamber when the lock is unlocked.

23. A vending machine construction comprising a coin chamber having an enclosing side wall closed at its upper end, a downwardly opening closure for the lower end of the coin chamber, a magazine chamber closed at its top removably supported upon and closed at its bottom by the closed upper end of the coin chamber, a wall bracket connected to the side wall of the coin chamber to support the machine while providing for free downwardly opening movement of the bottom closure of the coin chamber, releasable securing means including a single lock to hold the magazine chamber in closed position upon the coin chamber, and securing means including an automatically engaging manually releasable snap catch to hold the bottom of the coin chamber closed located within the magazine chamber so as to be accessible for release only when the magazine chamber has been opened.

In witness whereof, I hereunto subscribe my signature.

LOUIS H. MORIN.