Oct. 23, 1928. 1,688,443

E. G. WESSMAN

VENDING MACHINE

Filed March 17, 1925 6 Sheets-Sheet 1

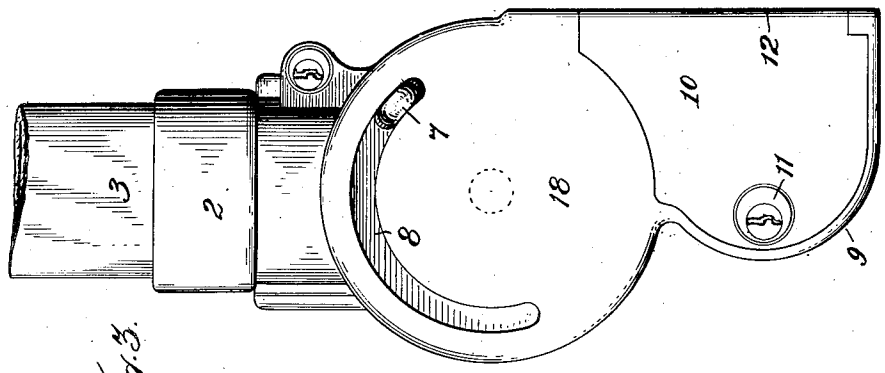


Fig. 3.

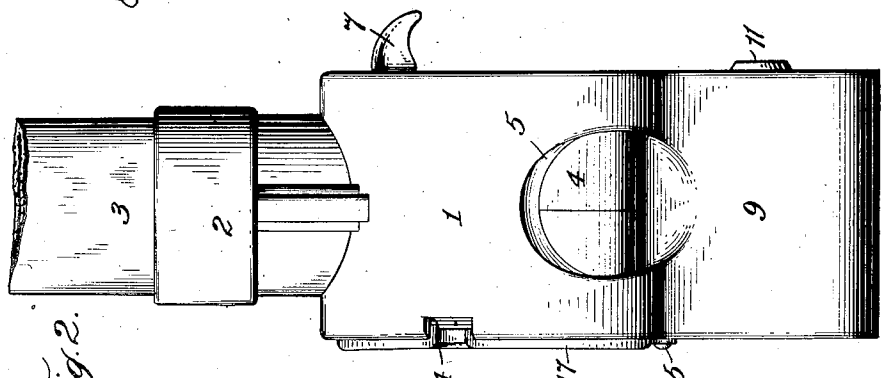


Fig. 2.

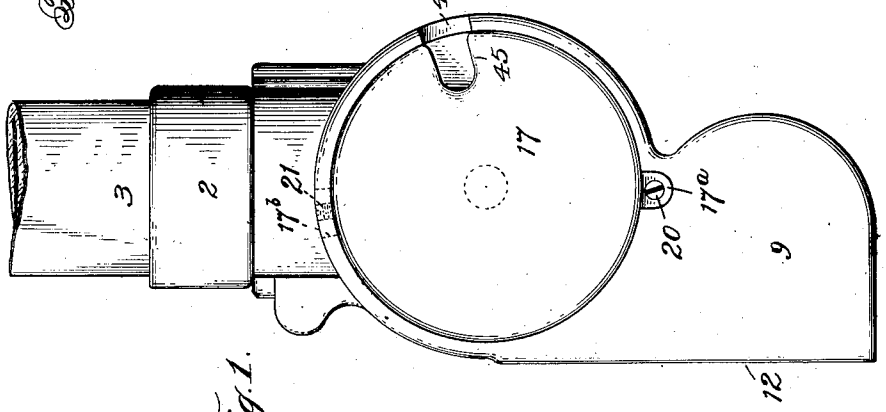


Fig. 1.

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Oct. 23, 1928. 1,688,443

E. G. WESSMAN

VENDING MACHINE

Filed March 17, 1925 6 Sheets-Sheet 2

Fig. 5.

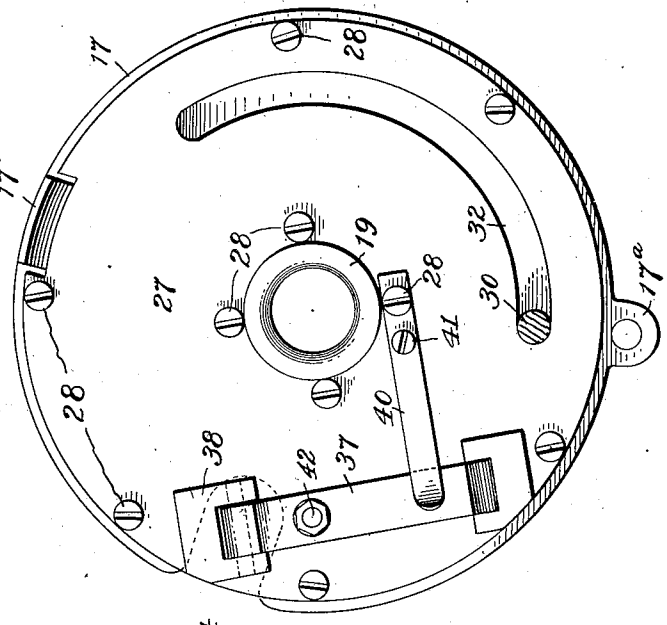
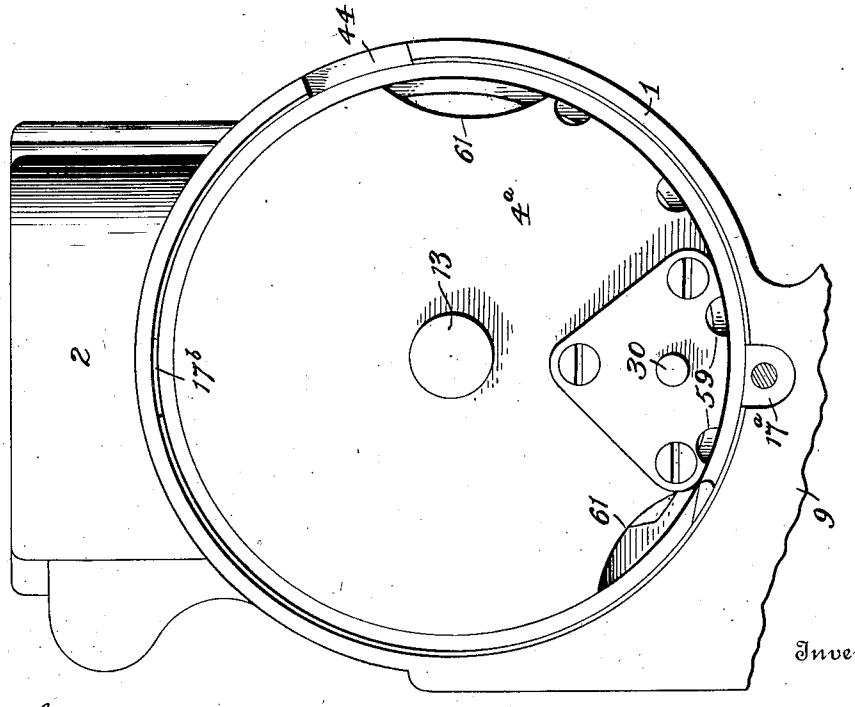


Fig. 4.



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VENDING MACHINE

Filed March 17, 1925 6 Sheets-Sheet 3

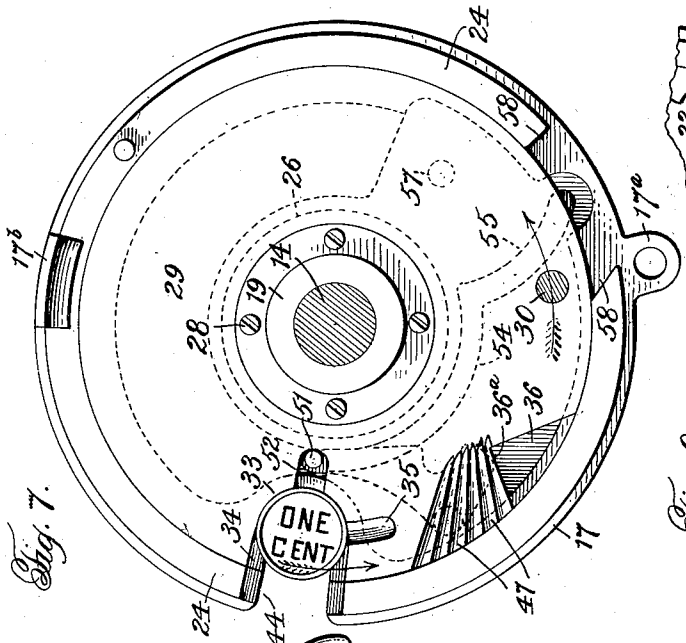


Fig. 7.

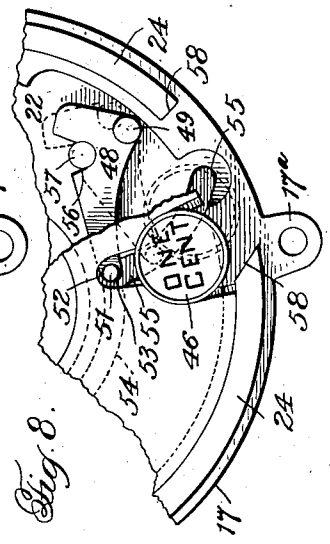


Fig. 8.

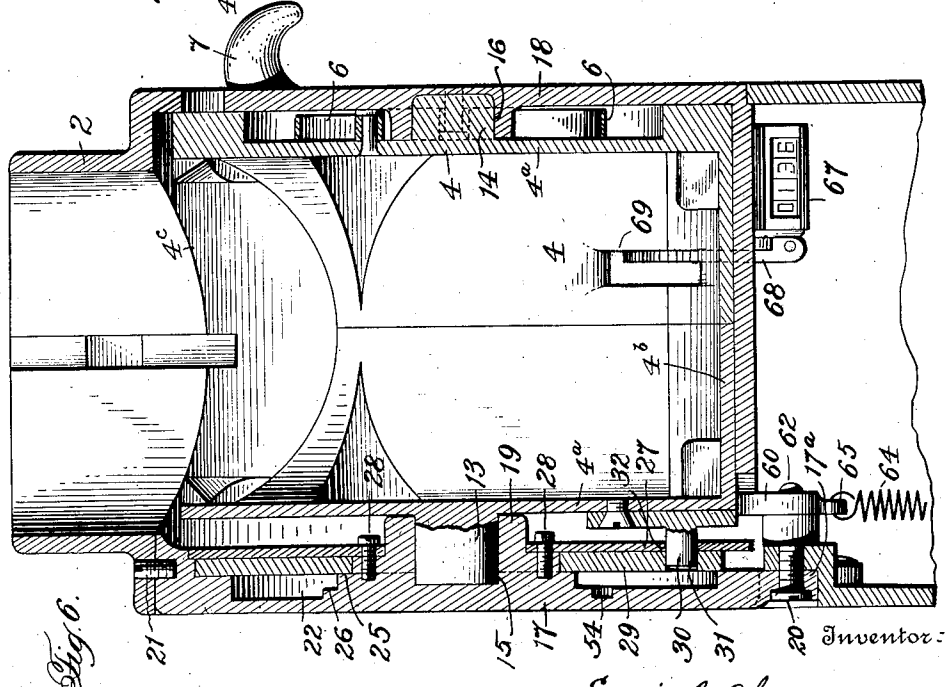


Fig. 6.

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E. G. WESSMAN

VENDING MACHINE

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Fig. 9.

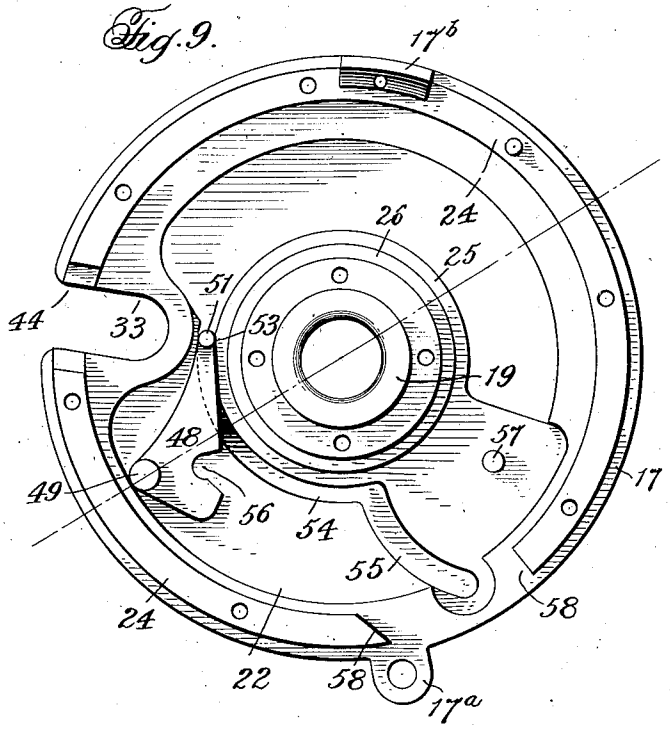
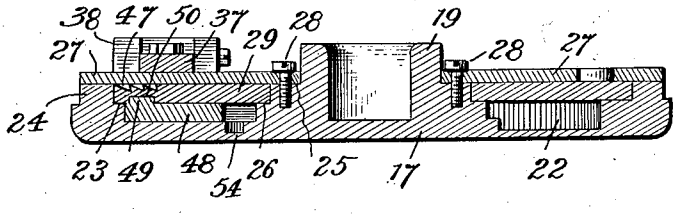


Fig. 10



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Oct. 23, 1928. 1,688,443

E. G. WESSMAN

VENDING MACHINE

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Fig. 13.

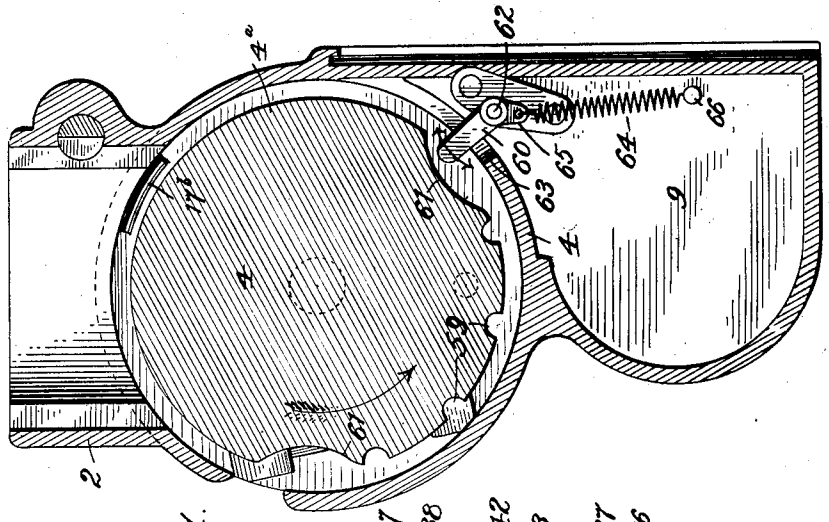


Fig. 11.

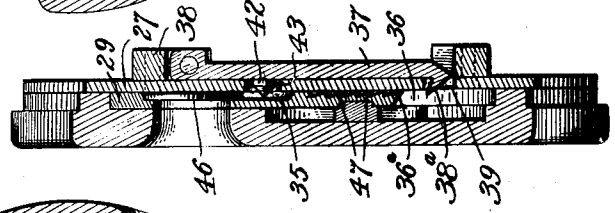
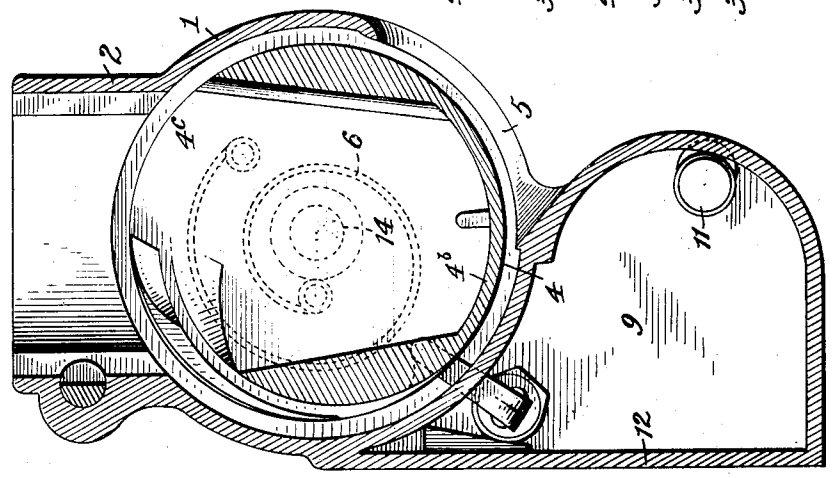


Fig. 12.



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Oct. 23, 1928.

1,688,443

E. G. WESSMAN

VENDING MACHINE

Filed March 17, 1925

6 Sheets-Sheet 6

Fig. 14.

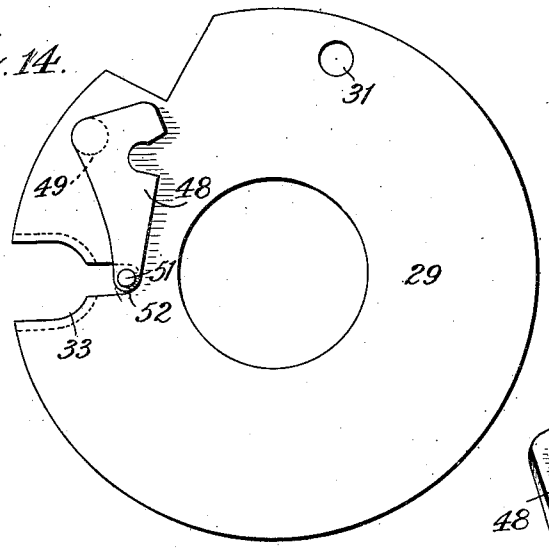


Fig. 15.

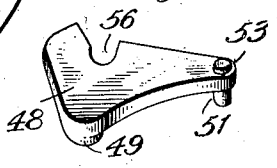


Fig. 16.

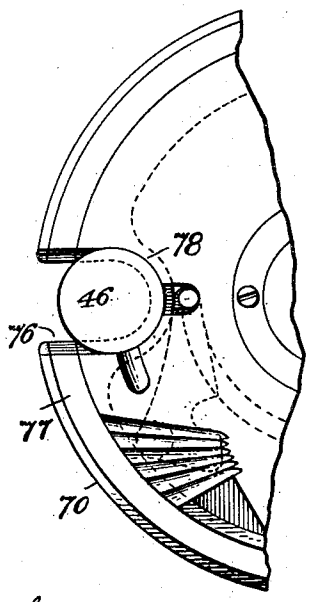
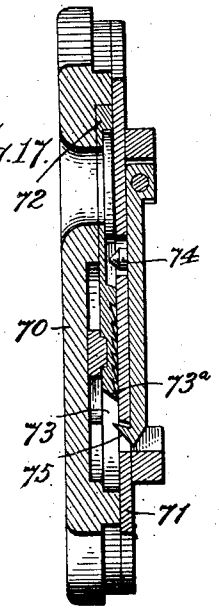


Fig. 17.



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Patented Oct. 23, 1928. 1,688,443

UNITED STATES PATENT OFFICE.

EDWIN G. WESSMAN, OF EASTON, PENNSYLVANIA, ASSIGNOR TO INDIVIDUAL DRINKING CUP COMPANY, INC., OF EASTON, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

VENDING MACHINE.

Application filed March 17, 1925. Serial No. 16,12".

This invention relates to improvements in vending machines and more particularly to improved coin or check controlled locking mechanism for such machines.

The object of the invention is to provide improved coin or check controlled locking mechanism of a simple, compact practical construction that will function in a reliable and efficient manner to control the operations of the vending machine through the medium of the proper coin or check.

A particularly important novel characteristic of the invention resides in the special means provided for positively ejecting the coins or checks from the locking mechanism after the same have performed the intended purpose thereby insuring against the operation of the machine to deliver goods more than once by a coin or check in the machine, and also preventing choking of the mechanism.

Important novel features of the invention also lie in the special compact construction of the locking mechanism and arrangement of the same with an end plate of the machine casing in the form of a single unit, and the particular association of the locking means with and connection of the same to the delivery means of the machine whereby the vending machine as a whole is of compact form and the parts can be readily assembled and removed.

The invention, with other objects and advantages thereof, and the particular construction, combinations and arrangements of parts comprising the same, will be understood from the hereinafter contained detailed description, when considered in connection with the accompanying drawings, forming part hereof, and illustrating one embodiment of the invention.

In the drawings:

Figure 1 is a side elevation of a vending machine equipped with coin or check controlled locking mechanism in accordance with the present invention.

Fig. 2 is a front view.

Fig. 3 is a side elevation looking from the other side of the machine from that illustrated in Figure 1.

Fig. 4 is a detail side elevation with the detachable end plate of the casing removed.

Fig. 5 is a detail side elevation of the stationary plate secured to the removable end plate of the casing and the locking mechanism parts carried thereby.

Fig. 6 is a vertical longitudinal section.

Fig. 7 is a detail side elevation of the locking mechanism, the stationary cover plate of the locking mechanism unit being removed.

Fig. 8 is a detail view of the coin ejecting means.

Fig. 9 is a detail side elevation of the inner side of the removable end plate of the casing with the ejector member associated therewith.

Fig. 10 is a detail section of the locking mechanism unit.

Fig. 11 is a detail sectional view of part of the locking mechanism.

Fig. 12 is a vertical section taken on a line running from front to rear near one end of the machine.

Fig. 13 is a similar view taken on a line running from front to rear near the other end of the machine.

Fig. 14 is a detail side elevation of the locking disk and coin ejector member, the disk being reversed to show its reverse side and the connection of the ejector member therewith.

Fig. 15 is a detail perspective view of the coin ejector member.

Fig. 16 is a side elevation of a slightly modified construction.

Fig. 17 is a detail sectional view of the modified construction illustrated in Figure 16.

The invention is particularly adapted for and in the drawings is exemplified in connection with one of the well known forms of apparatus for dispensing paper drinking cups, the same comprising (see particular Figures 1, 2, 3 and 6) a cylindrical casing part 1 having at its top a socket part 2 in which is detachably seated a container 3 for a stack of nested paper cups. Mounted for rotation within the cylindrical casing part 1 is a delivery drum or member 4 adapted to feed the cups singly from the nested stack to a delivery opening 5 in the cylindrical casing part 1. The delivery member or drum 4 has end walls 4^a and cylindrical part 4^b provided with an opening 4^c adapted to be alternately aligned with the opening of the socket part 2 and with the delivery opening 5, said delivery member or drum 4 having suitable cup flange engaging means, and being adapted to be oscillated in feeding the

cups from the machine. 6 designates a spiral spring which acts to yieldably maintain the delivery member or drum 4 in inactive position with its opening 4^c beneath the socket part 2, and to return the same to this position after each feeding movement. The delivery member or drum 4 is provided with an operating handle 7 extending through a slot 8 at one end of the cylindrical casing part 1, the end walls of said slot 8, with said handle 7, serving as stops to limit the oscillatory movement of the delivery member 4.

In accordance with the present invention the cylindrical casing part 1, is provided with a lower extension part 9 having a door 10 secured by a lock 11, and constituting a coin box, the lower casing extension 9 being shown with a flat rear wall 12 adapted to be secured to a suitable support (not shown). The delivery drum or member 4 is provided with trunnions 13, 14, engaging bearings 15, 16, on the end walls 17, 18, on the cylindrical casing part 1, the end wall 17 being formed as a separate plate and detachably secured in place, and said removable end plate 17 being provided with a central boss or projecting hub part 19 at its inner side in which is formed the bearing 15 for the delivery drum trunnion 13. In the construction shown, the removable end plate 17 is provided with lugs 17^a, 17^b, and is secured by screws 20—21 engaging said lugs and portions of the casing.

Referring now to the check controlled locking mechanism see particularly Figures 5 to 11 and 14 and 15 of the drawings, the removable end plate 17 of the cylindrical casing part 1 is provided at its inner side with a segmental recess 22, an annular shoulder 23, and a peripheral flange, 24, and the central boss or hub part 19 has shoulder portions 25, 26. Fixedly secured to the removable end plate 17 at its inner side is a plate 27. The plate 27, which has a central opening, fits over the central boss or hub part 19 against the shoulder portion 25 of the hub part 19 and the outer face of the peripheral flange 24 of the end plate, and is detachably secured to the end plate 17 by screws 28. Mounted for rotation on the central boss or hub part 19 of the removable end plate 17 between said plate and the plate 27 is a circular plate or disk 29. The circular plate or disk 29, which has an open central bearing to rotatably engage the boss or hub part 19, is held in place between the plate 27 and the shoulders 23 and 25 of the end plate, the engagement between the parts being such as to permit of free independent rotation of the disk 29. The rotatable delivery member or drum 4 is coupled to the rotatable disk 29 against rotation relatively to the disk. The connection is made by a stud 30 on the end plate 4^a of the delivery member or drum detachably engaging an aperture 31 in the disk 29, the stationary plate 27 being provided with a segmental slot 32 in which the stud 30 works. The disk 29 is provided with a peripheral opening 33 and is slotted at one side at 34 along the wall of the opening 33 to provide a coin pocket. 35 designates a groove in the face of the disk 29 adjoining the peripheral opening 33, and 36 is a slot in the disk 29 having a beveled end wall 36^a. Mounted on the stationary plate 27 at the outer side thereof is a spring pressed detent or pawl 37. The detent or pawl 37 is pivoted at one end to the part 38 on the plate 27 and has at its other end a locking tooth 38^a that works through an opening 39 in the plate 27. 40 designates the spring for the detent or pawl 37 secured at one end to the plate 27 by a screw 41 and one of the screws 28, and at its other end engaging the outer end portion of the detent 37. The detent or pawl 37 has at one side intermediate its ends a pin 42 provided with a conical shaped end, said pin extending through an opening 43 in the plate 27. The disk 29 normally, through its connection with the delivery member or drum 4, is yieldably held by the spring 6 in the position illustrated in Figure 7 of the drawings, the coin pocket of the disk 29 being in alignment with a coin slot 44 in the peripheral flange 24 of the end plate 17, the plate 17 being shown as also provided with an opening 45 to the side of the coin slot 44 to facilitate the insertion of the coin through said slot 44 into the coin pocket of the disk 29. With the disk 29 occupying the position referred to, the detent or pawl 37 occupies the position illustrated in Figure 11 of the drawings, the conical end of the pin 42 on the detent extending into the groove 35 of the disk 29, and the locking tooth 38^a of the detent or pawl 37 projecting into the opening 36 in the disk 29 in position to engage the beveled end wall 36^a. The opening 36 in the disk 29 is of a length to provide for a limited rotary movement of the disk 29 before the beveled end wall 36^a of the opening 36 in the disk will reach the locking tooth 38^a of the detent 37. When a coin or check 46 of the proper size is inserted into the coin pocket of the disk 29 through the coin slot 44, upon rotation of the delivery drum or member 4 and disk 29 in the direction of the arrow (see Figure 13) by the operating handle 7, the coin or check 46 will engage the conical end of the pin 42 of the detent 37 and move the detent laterally so that its locking tooth 38^a will be withdrawn into the opening 39 of the stationary plate 27 out of the path of the beveled end wall 36^a of the disk 29, and the disk 29 and the delivery member or drum 4 can be rotated to deliver a cup from the container 3. If the proper coin or check is not placed in the coin pocket of the disk 29, the disk and delivery drum or member 4 can only be moved a slight dis-

tance, the parts being locked from further movement by the locking tooth 38ª of the detent 37 engaging the beveled end wall 36ª of the opening 36 in the disk 29. The disk 29 may be and preferably is provided with a plurality of teeth 47 adjacent the beveled end wall 36ª of the opening 36 in the disk 29 to cooperate with the locking tooth 38ª of the detent 37 to lock the disk 29 against rotation should the bevel end wall 36ª of the disk be broken or the locking tooth 38ª of the detent or pawl be forced past the same in an attempt to operate the machine without inserting the proper coin or check.

Means is provided for positively ejecting the coin or check from the disk 29 in order to avoid choking or jamming of the mechanism, and to guard against the operation of the machine more than once by the same coin or check in the coin pocket of the disk 29. The means for this purpose comprises an ejector member connected with the disk for movement therewith and to rock relatively thereto in combination with means for holding the ejector member from rocking movement during the first part of the rotary movement of the disk 29, and for rocking the same at the latter part of the rotary movement of the disk 29, the ejector member having a portion, which during its rocking movement travels radially outward in the coin pocket of the disk 29. Referring particularly to Figures 7 to 10, and 14 and 15 of the drawings, 48 designates the ejector member in the form of an elongated flat plate part mounted in the recess 22 of the end plate 17. The ejector member 48 is pivotally connected at one end to the disk 29 near its periphery by a stud 49 on one side of the ejector member engaging a bearing 50 in the adjacent face of the disk 29, the side faces of the ejector member 48 slidably engaging the bottom wall of the recess 22 and the face of the disk 29. The ejector member near its other end at one side has a portion 51 projecting laterally across the plane of the coin pocket of the disk 29 and adapted to work in the slot 52 in the disk extending inwardly thereof from the bottom of the coin pocket of the disk. At the other side located opposite the projection 51, the ejector member has a pin or laterally projecting portion 53, which slidably engages a groove or channel in the bottom wall of the recess 22. The groove or channel, which extends from a point in radial alignment with the central point of the coin pocket of the disk 29, for its greater part 54 is concentric with the axis of rotation of the disk 29 and terminates in a cam part 55. The ejector member 48 is provided at one side with a curved notched portion 56, and 57 is a pin or abutment part on the end plate 17 extending into the recess 22. In the inactive position of the mechanism, the ejector member 48 occupies the position illustrated in Figures 7 and 9 of the drawings with its projecting portion 51 at the base of the slot 52 in the disk 29. As the disk 29 is rotated in a feeding movement of the delivery drum or member 4, the ejector member 48 will be carried around with the disk 29. During the greater part of the rotation of the disk 29, the ejector 48 through the engagement of the lateral projection 51 with the concentric part 54 of the groove or channel in the end plate 17, will be held from movement relatively to the disk 29, the ejector member 48 remaining in the same position relative to the disk as that illustrated Figure 7. In the latter part of the rotary movement of the disk 29, as the lateral projection 53 of the ejector member travels through the cam portion 55 of the channel or groove (see Figure 8) the ejector will be rocked relatively to the disk 29, and in this rocking movement its lateral projecting portion 51 will be caused to sweep radially outward from the slot 52 in the disk 29 into and through the coin pocket of the disk forcing the coin outwardly from the coin pocket through a slot 58 in the flange 24 of the end plate 17 into the coin box 9. In the rotation of the disk 29, the pin or abutment part 57 on the end plate 17 engages the curved notched portion 56 of the ejector member 48, as illustrated Figure 8, and assists in the rocking action. As will be understood upon the return movement of the disk 29 and delivery drum or member 4, the ejector member 48 will be returned to the position illustrated Figure 7 of the drawings.

Means is provided to prevent the disk 29 and the delivery member or drum 4 from returning to normal position after a coin or check has been inserted in the coin pocket of the disk and the same partly turned, until the delivery member or drum 4 and the disk 29 have been moved through the full cup feeding movement and the coin or check has been ejected from the disk. Referring particularly to Figures 6 and 13 of the drawings, the means for this purpose comprises a series of locking notches 59 in the periphery of the end plate 4ª of the delivery drum or member 4, and a pivoted spring held locking member 60 cooperating therewith. At either end of the series of locking notches 59 is a larger opening or notch 61. The locking member 60 is pivotally mounted on a pin 62 on the wall of the casing part 9 and works through an opening 63 in the cylindrical casing part 4. The locking member 60 is yieldably held in the position illustrated Figure 13 by a tension spring 64 connected with an arm 65 on the locking member 60 and a pin 66 on the casing part 9. The locking notches 59 are preferably of curved formation and the outer end of the locking member 60 curved, as shown. As will be understood the locking member 60 cooperating with the locking

notches 59 will operate to prevent the return of the delivery member or drum 4 and the disk 29, until the larger opening or notch 61 reaches a point opposite the locking member 60, which is then permitted to return to its normal position.

67 designates a counter of conventional form adapted to be operated through an arm 68 engaging a slot 69 in the delivery member or drum 4 at each feeding movement of the delivery member or drum.

The construction illustrated Figures 1 to 15 of the drawings is adapted to operate with a penny, the coin slot 44 and the coin pocket 29 of the disk being of a size to just accommodate this size coin. The machine may be constructed to operate with a minimum diameter of coin such as a penny and also with larger coins or checks up to a certain size. Such a modified construction is illustrated Figures 16 and 17 of the drawings. In these views 70 designates the removable end plate of the cylindrical part of the casing, 71 the stationary plate member secured to the end plate 70, 72 the locking disk mounted for rotation between the end plate 70 and the plate 71, 73 the slot in the disk having the beveled end wall 73^a. 74 is the pivoted detent or pawl and 75 the locking tooth of the pawl adapted to cooperate with the beveled end wall 73^a of the slot 73 in the disk 72. 76 designates the coin slot in the peripheral flange 77 of the end plate 72, and 78 the peripheral coin pocket of the disk 72.

In this modified construction the coin slot 76 and the coin pocket 78 are constructed large enough to take the maximum diameter coin or check and the construction is such that the minimum size coin or check will also be retained by the coin pocket 78 of the disk. The difference between the two diameters of coins or checks, as will be understood, is provided for, as regards the operation of the detent or pawl 74, by the location of the locking tooth 75 of the detent or pawl relatively to the beveled end wall 73^a of the opening 73 in the disk 74, the distance between the locking tooth 75 of the detent or pawl 74 and the beveled end wall 73^a of the disk being increased, the mechanism readily lending itself to be operated through the coin or checks of different sizes within certain limits without requiring any material change in structure.

It will be noted that by the particular construction and arrangement of parts hereinbefore set forth, a simple, practical form of coin or check controlled locking mechanism is provided which will be reliable and efficient in use. The special coin ejecting means functions in a positive way to free the locking disk of the coin or check, preventing choking of the mechanism and the operation of the machine more than once by a coin in the pocket of the locking disk. The construction is of a compact nature and, as will be appreciated the arrangement of the check controlled locking mechanism as a unit with the removable end plate of the casing, and the particular arrangement and detachable coupling of the mechanism with the goods delivery member or drum is of material advantage in the assembly of the parts.

While a specific embodiment of the invention is illustrated in the drawings, it will of course be understood that minor changes and modifications in the particular coin controlled mechanism shown, and the embodiment of the same in other forms associated with other forms of vending apparatus adapted for vending various kinds of goods, as will appeal to those skilled in the art and falling within the scope of the appended claims, may be practiced without departing from the spirit of the invention.

What I claim is:

1. In a vending machine, a rotatable delivery part, and check controlled locking mechanism for said part including a rotatable disk to which said part is fixed against relative rotation, said disk being provided with a peripheral coin receiving and holding pocket, a detent to lock the disk from rotation in one direction and adapted to be held out of operative position by a coin in the pocket of the disk, and coin ejecting means comprising a member independent of the coin pocket, said member being supported on the disk to one side of the coin pocket thereof, and said member having a coin engaging portion extending laterally in the plane of the coin pocket of the disk and being movable relatively to the disk to move its coin engaging portion outwardly within the coin pocket toward the periphery of the disk to force a coin radially outward from the coin pocket of the disk, and actuating means for said member.

2. In a vending machine, a rotatable delivery part, and check controlled locking mechanism for said part including a rotatable disk to which said part is fixed against relative rotation, said disk being provided with a peripheral coin receiving and holding pocket, a detent to lock the disk from rotation in one direction and adapted to be held out of operative position by a coin in the coin pocket of the disk, and coin ejecting means including an ejector member independent of the coin pocket supported on the disk for rocking movement relatively thereto, said ejector member having a coin engaging portion movable within the coin pocket outwardly toward the periphery of the disk to force a coin from the coin pocket, and actuating means for said member.

3. In a vending machine, a rotatable delivery part, and check controlled locking mechanism for said part including a rotatable disk to which said part is fixed against relative rotation, said disk being provided

with a peripheral coin receiving pocket, a detent to lock the disk from rotation in one direction and adapted to be moved out of operative position to lock the disk by a coin in the coin pocket of the disk, and coin ejecting means including an ejector member connected with the disk for movement therewith and for rocking movement relatively thereto, means for holding the ejector from movement relatively to the disk through a part of the rotary movement of the disk, and a stationary part to be engaged by the ejector member for rocking the same relatively to the disk during a part of the rotary movement of the disk to force a coin from the coin pocket of the disk.

4. In a vending machine, a rotatable delivery part, and check controlled locking mechanism for said part including a rotatable disk to which said part is fixed against relative rotation, said disk being provided with a peripheral coin receiving pocket, a detent to lock the disk from rotation in one direction and adapted to be held out of operative position by a coin in the pocket of the disk, and coin ejecting means including an ejector member connected with the disk for movement therewith and for rocking movement relatively thereto, a stationary part, and means on the stationary part cooperating with the ejector to hold the latter from rocking movement through a part of the rotary movement of the disk, and to rock the same relatively to the disk during a part of the rotary movement of the disk.

5. In a vending machine, a rotatable delivery part, and check controlled locking mechanism for said part including a rotatable disk to which said part is fixed against relative rotation, said disk being provided with a peripheral coin receiving pocket, a detent to lock the disk from rotation in one direction and adapted to be held out of operative position by a coin in the pocket of the disk, and coin ejecting means including an ejector member pivotally connected with the disk for movement therewith and for rocking movement relatively thereto, and means to hold the ejector member from rocking movement relatively to the disk through a part of the rotary movement of the disk, and to rock the ejector member relatively to the disk during a part of the rotary movement of the disk, said means including a stationary part provided with a guide channel, and a part on the ejector engaging said channel.

6. In a vending machine, a rotatable delivery part, and check controlled locking mechanism for said part including a rotatable disk to which said part is fixed against relative rotation, said disk being provided with a peripheral coin receiving pocket, a detent to lock the disk from rotation in one direction and adapted to be held out of operative position by a coin in the pocket of the disk, and coin ejecting means including an ejector member pivotally connected with the disk for movement therewith and for rocking movement relatively thereto, and means to hold the ejector member from rocking movement relatively to the disk through a part of the rotary movement of the disk, and to rock the ejector member relatively to the disk during another part of the rotary movement of the disk, said means including a stationary part provided with a cam groove, and a part on the ejector engaging said cam groove.

7. In a vending machine, a rotatable delivery part, and check controlled locking mechanism for said part including a rotatable disk to which said part is fixed against relative rotation, said disk being provided with a peripheral coin receiving and holding pocket, a detent to lock the disk from rotation in one direction and adapted to be held out of operative position by a coin in the pocket of the disk, and coin ejecting means including an ejector member independent of the coin pocket pivotally connected with the disk for movement therewith and for rocking movement relatively to the coin pocket, and means to rock the ejector member during a part of the rotary movement of the disk, said means including a stationary abutment arranged to be engaged by the ejector member.

8. In a vending machine, a rotatable delivery part, and check controlled locking mechanism for said part including a rotatable disk to which said part is fixed against relative rotation, said disk being provided with a peripheral coin receiving pocket, a detent to lock the disk from rotation in one direction and adapted to be held out of operative position by a coin in the pocket of the disk, and coin ejecting means including an ejector member pivotally connected with the disk for movement therewith and for rocking movement relatively thereto, and means to hold the ejector member from rocking movement relatively to the disk through a preliminary part of the rotary movement of the disk, and to rock the ejector member relatively to the disk during the latter part of the rotary movement of the disk, said means including a stationary part provided with a guide channel, a part on the ejector member engaging said channel, and a stationary abutment arranged to be engaged by the ejector member.

9. In a vending machine, a rotatable delivery part, and check controlled locking mechanism for said part including a rotatable disk to which said part is fixed against relative rotation, said disk being provided with a peripheral coin receiving pocket having a fixed bottom wall and side walls, and a slot extending inwardly from the bottom wall of said pocket, a detent to lock the disk against rotation in one direction and adapted to be

moved out of operative position to lock the disk by a coin in the coin pocket of the disk, and coin ejecting means comprising an ejector member independent of the coin pocket mounted on the disk and having a coin engaging portion normally extending into said slot of the disk outside of the coin pocket, said member being movable relatively to the disk to carry its coin engaging portion outwardly from said slot into the coin pocket of the disk toward the periphery of the disk to force a coin from the coin pocket, and actuating means for said member.

10. In a vending machine, a rotatable delivery part, and check controlled locking mechanism for said part including a rotatable disk to which said part is fixed against relative rotation, said disk being provided with a peripheral coin receiving pocket and having a slot extending inwardly from the bottom part of said pocket, a detent to lock the disk against rotation in one direction and adapted to be held out of locking engagement with the disk by a coin in the pocket of the disk, a stationary plate at one side of the disk against which the disk slidably fits, said plate being provided with a recess in its inner face, an ejector member arranged to slide and rock in said recess between the plate and disk, said ejector member having a projection at one side pivotally engaging a recess in said disk, and a coin engaging portion normally extending into the slot of the disk, and means on said plate for rocking the ejector member during a part of the rotary movement of the disk.

11. In a vending machine, a rotatable delivery part, and check controlled locking mechanism for said part including a rotatable disk to which said part is fixed against relative rotation, said disk being provided with a peripheral coin receiving pocket and having a slot extending inwardly from the bottom part of said pocket, a detent to lock the disk against rotation in one direction and adapted to be held out of locking engagement with the disk by a coin in the pocket of the disk, a stationary plate at one side of the disk against which the disk slidably fits, said plate being provided with a recess in its inner face, an ejector member arranged to slide and rock in said recess between the plate and disk, said ejector member having a projection at one side pivotally engaging a recess in said disk, and a coin engaging portion normally extending into the slot of the disk, and means on said plate for rocking the ejector member during a part of the rotary movement of the disk, said means including a part on the said plate extending into the recess of the plate to be engaged by the ejector member near the end of the rotary movement of the disk.

12. In a vending machine, a rotatable delivery part, and check controlled locking mechanism for said part including a rotatable disk to which said part is fixed against relative rotation, said disk being provided with a peripheral coin receiving pocket and having a slot extending inwardly from the bottom part of said pocket, a detent to lock the disk against rotation in one direction and adapted to be held out of locking engagement with the disk by a coin in the pocket of the disk, a stationary plate at one side of the disk against which the disk slidably fits, said plate being provided with a recess in its inner face, an ejector member arranged to slide and rock in said recess between the plate and disk, said ejector member having a projection at one side pivotally engaging a recess in said disk, and a coin engaging portion normally extending into the slot of the disk, and means on said plate for holding the ejector member from movement relatively to the disk through a preliminary part of its rotary movement, and for rocking the ejector member relatively to the disk near the end of the rotary movement of the disk.

13. In a vending machine, a rotatable delivery part, and check controlled locking mechanism for said part including a rotatable disk to which said part is fixed against relative rotation, said disk being provided with a peripheral coin receiving pocket and having a slot extending inwardly from the bottom part of said pocket, a detent to lock the disk against rotation in one direction and adapted to be held out of locking engagement with the disk by a coin in the pocket of the disk, a stationary plate at one side of the disk against which the disk slidably fits, said plate being provided with a recess in its inner face, an ejector member arranged to slide and rock in said recess between the plate and disk, said ejector member having a projection at one side pivotally engaging a recess in said disk, and a coin engaging portion normally extending into the slot of the disk, and means on said plate for holding the ejector member from movement relatively to the disk through a preliminary part of its rotary movement, and for rocking the ejector member relatively to the disk near the end of the rotary movement of the disk, said means including a cam groove in said plate and a projection on the ejector member engaging said groove.

14. In a vending machine, a rotatable delivery part, and check controlled locking mechanism for said part including a rotatable disk to which said part is fixed against relative rotation, said disk being provided with a peripheral coin receiving pocket and having a slot extending inwardly from the bottom part of said pocket, a detent to lock the disk against rotation in one direction and adapted to be held out of locking engagement with the disk by a coin in the pocket of the disk, a sationary plate at one side of the disk against which the disk slidably fits, said plate being provided with a recess in its inner

face, an ejector member arranged to slide and rock in said recess between the plate and disk, said ejector member having a projection at one side pivotally engaging a recess in said disk, a coin engaging portion normally extending into the slot of the disk, means on said plate for holding the ejector member from movement relatively to the disk through a preliminary part of its rotary movement and for rocking the ejector member relatively to the disk near the end of the rotary movement of the disk, said means including a cam groove on said plate, a projection on the ejector member engaging said groove, and a stud on the plate extending into the recess of the plate to be engaged by the ejector member during the latter part of the rotary movement of the disk.

15. In a vending machine, a roatable delivery part, and check controlled locking mechanism for said part including a rotatable disk to which said part is fixed against relative rotation, said disk being provided with a peripheral coin receiving pocket and having a slot extending inwardly from the bottom part of said pocket, a detent to lock the disk against rotation in one direction and adapted to be held out of locking engagement with the disk by a coin in the pocket of the disk, a stationary plate at one side of the disk against which the disk slidably fits, said plate being provided with a recess in its inner face, an ejector member arranged to slide and rock in said recess between the plate and disk, the ejector member comprising an elongated flat plate part having a projection near one end pivotally engaging a recess in the disk near its periphery, and having a coin engaging portion normally projecting into the slot of the disk, and means for holding the ejector member from movement relatively to the disk through a part of the rotary movement of the disk, and for rocking the ejector member near the end of the rotary movement of the disk, said means including a cam groove in the stationary plate and a projection near one end of the ejector plate engaging said groove.

16. In a vending machine, a rotatable delivery part, and check controlled locking mechanism for said part including a rotatable disk to which said part is fixed against relative rotation, said disk being provided with a peripheral coin pocket and a channel extending from one side thereof, a stationary plate member at one side of the disk provided with two openings therein, and a pivoted spring pressed detent mounted on said plate at one side thereof, the detent being provided with a locking tooth normally extending through one of the openings in the plate to the other side of the plate in the path of movement of a part on the disk, and said detent having a pin thereon projecting from one side thereof through the other opening in the plate into the said channel of the disk at one side of the coin pocket and adapted to be engaged by a coin in the coin pocket of the disk to shift the detent and move its locking tooth out of operative position.

17. In a vending machine, a rotatable delivery part, and check controlled locking mechanism for said part including a rotatable disk to which said part is fixed against relative rotation, said disk being provided with a peripheral coin pocket and having a groove in one side face extending from one side of the coin pocket, a stationary plate member at one side of the disk provided with two openings therein, and a pivoted spring pressed detent mounted on the plate at one side thereof, the detent being provided with a locking tooth normally extending through one of the openings in the plate to the other side of the plate in the path of movement of a part on the disk, and said detent having a pin projecting from one side thereof through the other opening in the plate into the said groove of the disk and adapted to be engaged by a coin in the coin pocket of the disk to shift the detent and move its locking tooth out of operative position.

18. In a vending machine, a casing having a removable end plate provided at its inner side with a projecting hub portion, a delivery member rotatably mounted in the casing, said delivery member having trunnions at its ends, one of said trunnions detachably engaging a bearing in said hub portion, a second plate fitting over said hub portion and secured to the removable end plate in spaced relation with the inner face thereof, said plate being provided with a segmental slot, and a coin releasable locking disk totatably mounted on the hub part of the removable end plate between the latter plate and the second plate, and means connecting the delivery member to the locking disk comprising a pin projecting from one end of the delivery member through the segmental slot of the second plate and engaging an aperture in the disk.

19. In a vending machine, a rotatable delivery part, and check controlled locking mechanism for said part including a rotatable disk to which said part is fixed against relative rotation, said disk being provided with a peripheral coin receiving pocket, a detent to lock the disk from rotation in one direction and adapted to be held out of operative position by a coin in the pocket of the disk, and coin ejecting means comprising an ejector member independent of the coin pocket pivotally mounted on the disk to one side of the coin pocket thereof and having a laterally projecting coin engaging portion extending in the plane of the coin pocket, said member being movable to move its coin engaging portion outwardly within the coin pocket toward the periphery of the disk to

force a coin from the coin pocket, and actuating means for said member.

20. In a vending machine, a rotatable delivery part, and check controlled locking mechanism for said part including a rotatable disk to which said part is fixed against relative rotation, said disk being provided with a peripheral coin receiving pocket having side walls and a fixed bottom wall and a slot extending inwardly from the bottom wall of said pocket, a detent to lock the disk against rotation in one direction and adapted to be moved out of operative position to lock the disk by a coin in the coin pocket of the disk, and coin ejecting means comprising an ejector member movably mounted on the disk to one side of the coin pocket thereof and having a laterally projecting coin engaging portion normally extending into said slot of the disk, said member being movable relatively to the disk to carry its coin engaging portion outwardly from said slot into the coin pocket of the disk toward the periphery of the disk to force a coin from the coin pocket, and actuating means for said member.

In testimony whereof I hereunto affix my signature.

EDWIN G. WESSMAN.