May 10, 1927. 1,628,062

N. P. PETERSEN

COIN SLOT MECHANISM FOR VENDING MACHINES

Filed April 13, 1925 4 Sheets-Sheet 1

Fig. 1

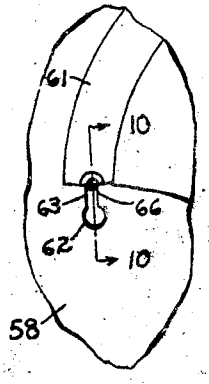


Fig. 9

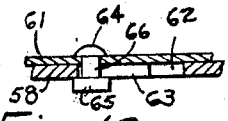


Fig. 10

Inventor
Nels P. Petersen.
by: Hazard and Miller
Attys.

May 10, 1927. 1,628,062

N. P. PETERSEN

COIN SLOT MECHANISM FOR VENDING MACHINES

Filed April 13, 1925 4 Sheets-Sheet 2

Fig. 2

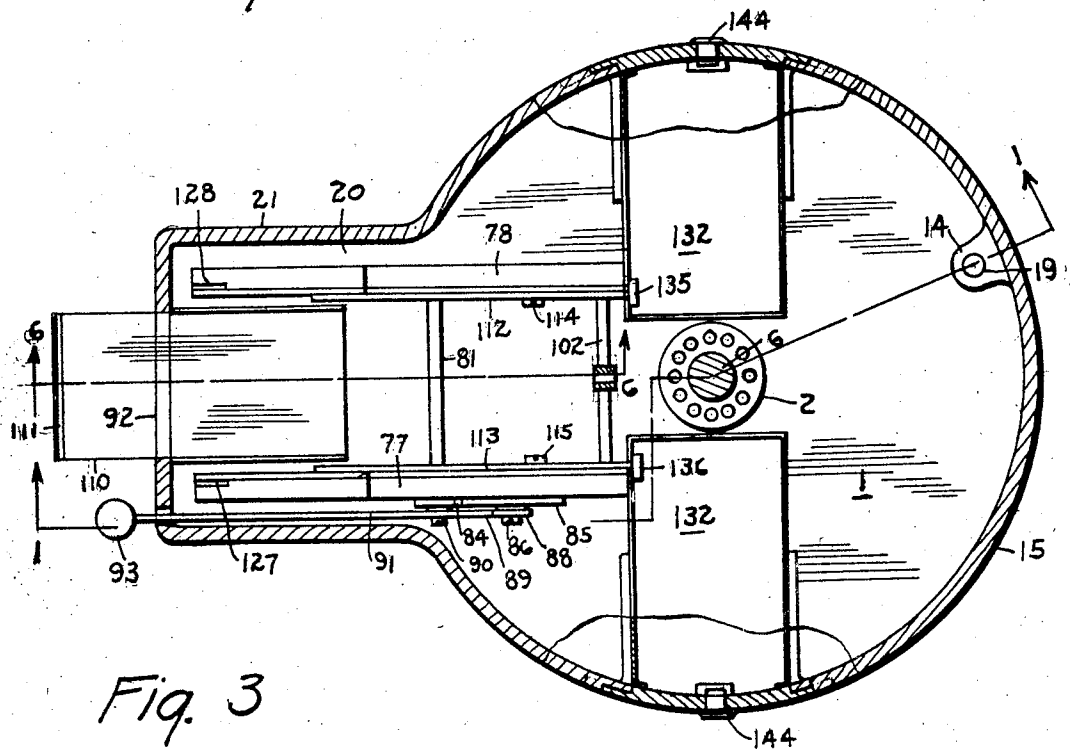
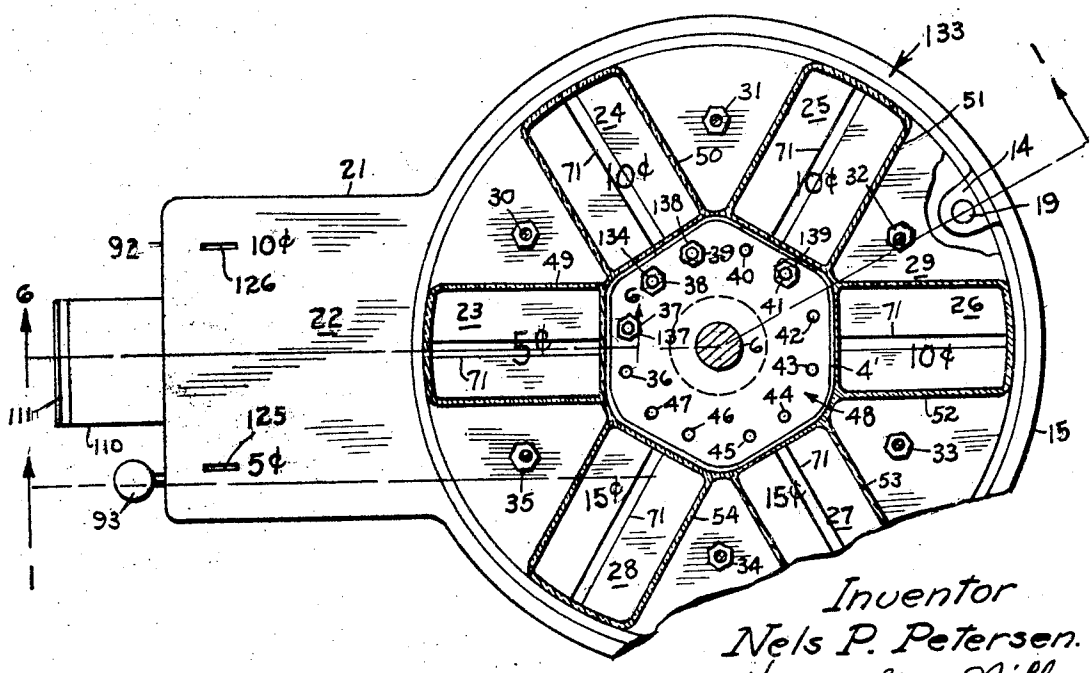


Fig. 3



Inventor
Nels P. Petersen.
by: Hazard and Miller
Attys.

May 10, 1927. 1,628,062

N. P. PETERSEN

COIN SLOT MECHANISM FOR VENDING MACHINES

Filed April 13, 1925 4 Sheets-Sheet 3

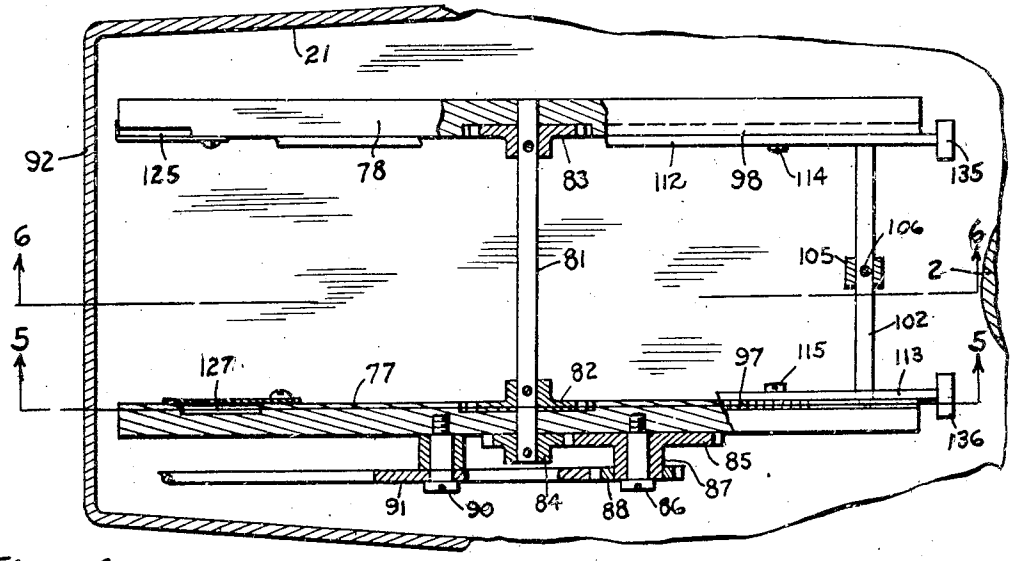


Fig. 4

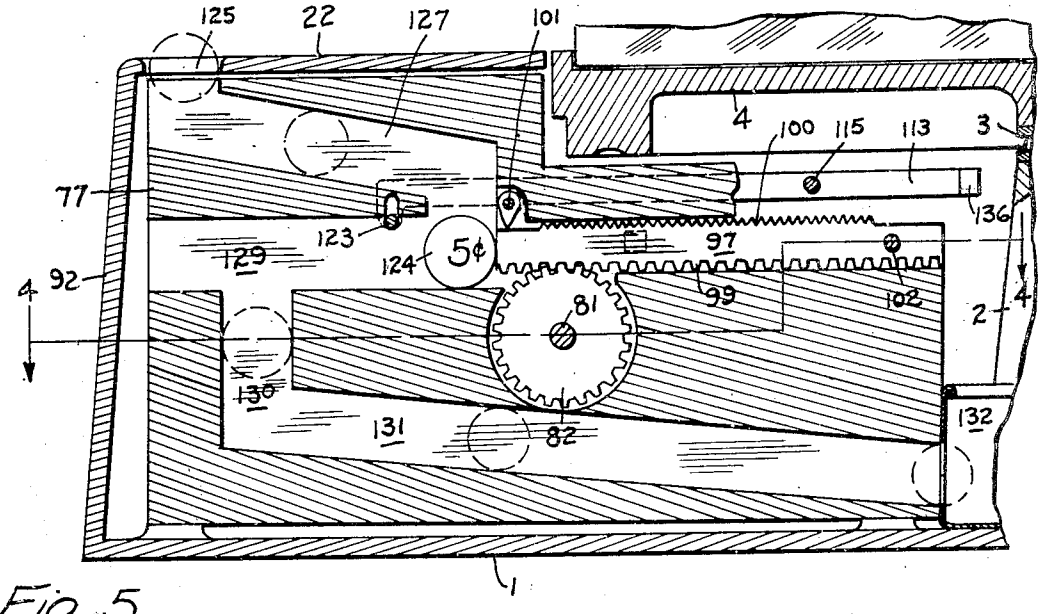


Fig. 5

Inventor
Nels P. Petersen.
by: Hazard and Miller
Attys.

May 10, 1927. **1,628,062**

N. P. PETERSEN

COIN SLOT MECHANISM FOR VENDING MACHINES

Filed April 13, 1925 4 Sheets-Sheet 4

Fig. 11

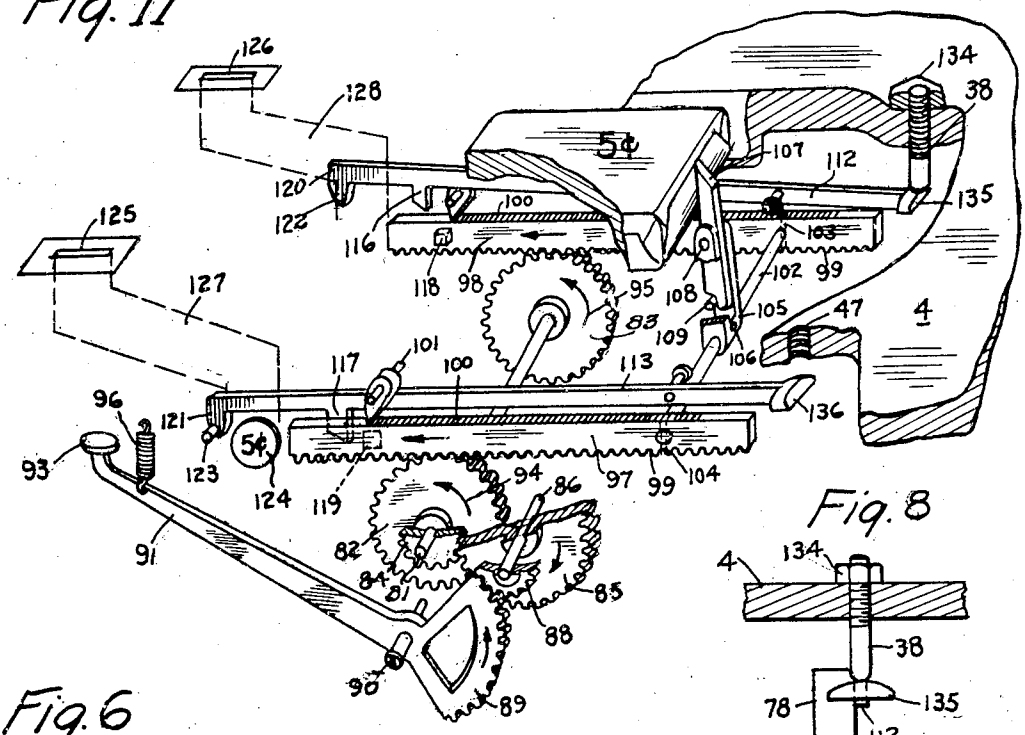


Fig. 6

Fig. 8

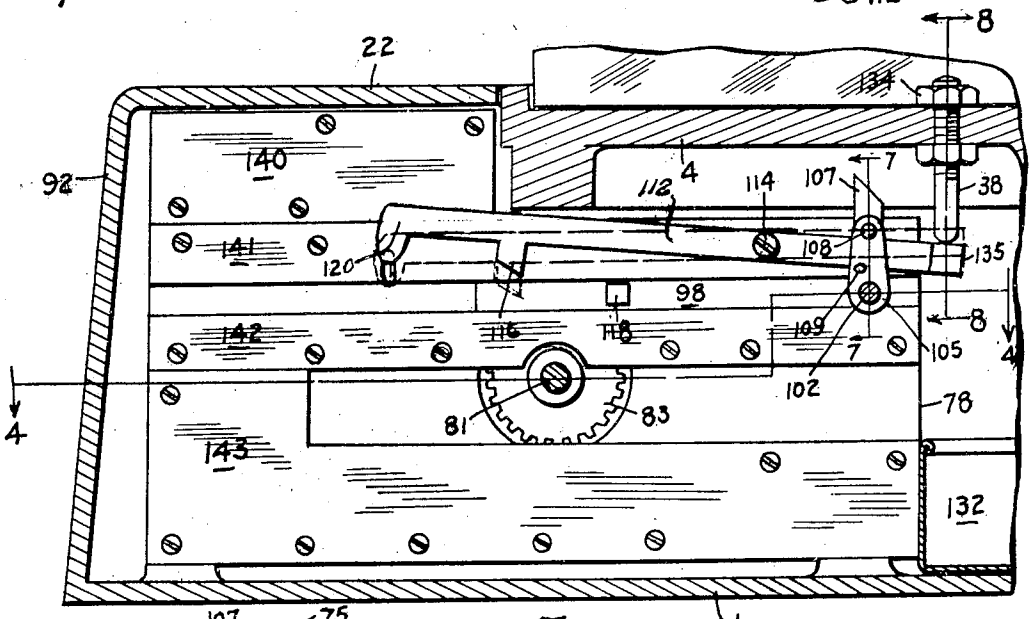
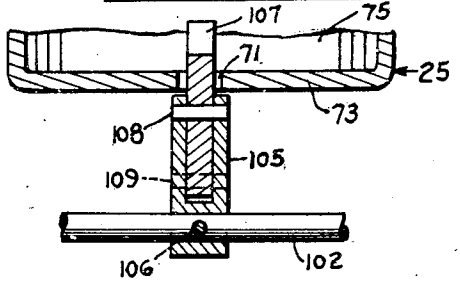


Fig. 7



Inventor
Nels P. Petersen.
by: Hazard and Miller
Attys.

Patented May 10, 1927. 1,628,062

UNITED STATES PATENT OFFICE.

NELS P. PETERSEN, OF LOS ANGELES, CALIFORNIA.

COIN-SLOT MECHANISM FOR VENDING MACHINES.

Application filed April 13, 1925. Serial No. 22,745.

This invention relates to vending machines and consists of the novel features herein shown, described and claimed.

In this case and in a companion application I have shown and described a complete vending machine mechanism and a complete coin slot mechanism for controlling the vending machine mechanism.

An object of the complete machine is to provide means for vending a plurality of articles at different prices. The machine shown has a magazine with one or more chambers for 5¢ articles, one or more chambers for 10¢ articles and one or more chambers for 15¢ articles, and has means for delivering the desired article by the insertion of a nickel for the 5¢ articles, a dime for the 10¢ articles and a dime and a nickel for the 15¢ articles.

The coin slot mechanism has a 5¢ side and a 10¢ side and the machine has automatic means for unlocking the 10¢ side when a nickel is used and for unlocking the 5¢ side when a dime is used and for leaving both sides locked when a dime and a nickel are to be used.

It is to be understood that the machine might be differently arranged for the use of different coins and the dispensing of different priced articles if desired. Specifically an object is to make a magazine of transparent glass rotatably on a vertical axis and having a plurality of chambers for the reception of different stocks of articles to be vended, and to provide means for bringing the desired stock into position to be discharged by the insertion of a proper coin or coins.

Another object is to make a vending machine having a 5¢ side and a 10¢ side or the like, the two sides being normally locked and requiring the insertion of proper coins for unlocking and to provide means whereby either side may be automatically unlocked so that the machine may be operated with a single coin on the other side.

Another object of my invention is a mechanical and manual method of vending articles in which articles of several different values may be positioned in a vending device, a coin of a low value may be utilized cooperating with a manual operation to vend a low priced article, a coin of a higher value may then be utilized in cooperation with the manual positioning of the articles and the manual operation of the vending device to vend an article of a higher value, a third feature is positioning the articles to vend an article of a value equal to the sum of the two first articles and utilizing coins of the lower and the higher value together with a manual manipulation to vend an article of the value of the low and the high coin.

In this application I have shown and described a complete vending machine mechanism and coin slot mechanism, but I have claimed only the coin slot mechanism and in a companion application I have shown and described the same machine and claimed the vending machine mechanism.

Other objects and advantages will appear from the drawings and specification. The drawings illustrate the complete vending machine mechanism and the complete coin slot mechanism.

Figure 1 is an irregular sectional elevation of a vending machine mechanism and the coin slot mechanism embodying the principles of my invention, the view being taken substantially on the line 1—1 of Fig. 2 and looking in the direction indicated by the arrow.

Fig. 2 is a horizontal section on the line 2—2 of Fig. 1 and looking downwardly as indicated by the arrow.

Fig. 3 is a horizontal section on the line 3—3 of Fig. 1 and looking downwardly as indicated by the arrow.

Fig. 4 is a fragmentary, horizontal section on the lines 4—4 of Figs. 1 and 7 and looking downwardly as indicated by the arrows.

Fig. 5 is a fragmentary, vertical, longitudinal section on the plane parallel with Fig. 1 and on the line 5—5 of Fig. 4 and looking in the direction indicated by the arrows.

Fig. 6 is a fragmentary, vertical, longitudinal section on a plane parallel with Fig. 5 and on the line 6—6 of Fig. 4.

Fig. 7 is a fragmentary, sectional detail on the lines 7—7 of Figs. 1 and 6.

Fig. 8 is a fragmentary sectional detail on the line 8—8 of Fig. 6.

Fig. 9 is a fragmentary detail looking downwardly from the line 9—9 of Fig. 1.

Fig. 10 is a fragmentary section on the line 10—10 of Fig. 9.

Fig. 11 is a fragmentary perspective diagram showing the operation of placing a 5¢

coin in the coin slot mechanism, selecting a 5¢ package from the magazine, cutting off the 10¢ mechanism and pushing the operating lever to deliver the 5¢ package.

The details of construction and operation of the complete vending machine mechanism and the complete coin slot mechanism are as follows:

The casing has a substantial solid bottom 1, a pedestal 2 extends upwardly from the bottom 1 near its center and may be formed integral with the bottom or substantially secured thereto. A ball bearing 3 rests upon the pedestal 2. A magazine base 4 has a bearing boss 5 extending downwardly from its center and resting upon the ball bearing 3. A spindle 6 is inserted loosely downwardly through the magazine bottom 4, through the center of the boss 5, through the bearing 3 and tapped into the pedestal 2 and additionally held rigid by a set screw 7.

A supporting nut 8 is adjustably mounted upon the upper end of the spindle 6, a ball bearing 9 is mounted upon the spindle and rests upon the nut 8. A nut 10 is mounted upon the spindle 6 above the nut 8 and ball bearing 9 and spaced from the ball bearing. The extreme upper end of the spindle 6 is reduced to form the pintle 11 and the pintle 11 is perforated to receive the hasp 12 of a lock 13.

A ledge 14 extends inwardly from the wall 15 of the case and the wall 15 extends upwardly from the edge of the bottom 1. The top 16 of the ledge 14 is substantially on a level with the centers of the balls of the bearing 3. A bore 17 is formed downwardly into the ledge 14. An expansive coil spring 18 is placed in the bore, a ball 19 is placed in the bore 17 upon the spring 18 and the material of the ledge is peened around the ball so as to allow the ball to project slightly above the face 16 and to hold the ball from being expelled from the bore as required to make a ball catch.

Referring to Fig. 2, the wall 15 is concentric with the pedestal 2 and the bottom 1 is necessarily circular and extends from the lower edge of the wall 15 inwardly to the pedestal 2 all the way around. At the front a square or rectangular portion 20 extends from the bottom 1 and a three sided portion 21 extends from the wall 15 along the three outer sides of the portion 20. A cover 22 completes the enclosure of the space above the bottom portion 20 within the wall portion 21. The circular portion of the wall 15 extends to the level of the top of the cover 22 as shown in Fig. 1 and extends some distance above the ball catch 19 and the bearing 3.

Referring to Figs. 1, 3, 6 and 7 the magazine bottom 4 has rectangular pockets 23, 24, 25, 26, 27 and 28 extending downwardly from the level 29 substantially to the level of the centers of the balls of the bearing 3, being the normal upper face of the bottom 4.

Tie bolts 30, 31, 32, 33, 34 and 35 extend through the bottom 4 between the pockets 23 to 28. Stop bolt holes 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46 and 47 are formed through the bottom 4 inside of the pockets 23, 24, 25, 26, 27 and 28, there being two stop bolt holes for each pocket. The pockets are arranged radially in a circle equally spaced from the spindle 6 and the bolt holes 36 to 47 are arranged in the space inside of the pockets and concentric with the spindle 6.

The main magazine shell 48 is circular in plan and rests upon the bottom 4 inside of a retaining flange 4' and is concentric with the spindle 6. Chambers 49, 50, 51, 52, 53, and 54 extend outwardly from the shell 48 and register with the pockets 23, 24, 25, 26, 27 and 28 to make compartments for receiving the packages to be vended.

I propose to make the shell 48 and the chambers 49 to 54 of transparent glass, preferably all in one piece and the shell and chambers will be of considerable height as required to receive considerable stocks of the articles to be vended.

A magazine cover supporting frame 55 fits upon the upper end of the shell 48 and has a retaining flange 56 around the upper end of the shell and the frame 55 fits loosely upon the upper end of the spindle 6 against the ball bearing 9 and under the nut 10.

The tie bolts 30, 31, 32, 33, 34 and 35 extend through the frame 55 to securely connect the frame to the bottom 4 and hold the magazine shell 48 and chambers securely in place. The frame 55 has openings 57 registering with the chambers 23, 24, 25, 26, 27 and 28 so that the packages to be vended may be inserted through the openings 57 into the chambers.

A removable cover 58 has a rim 59 fitting around the flange 56 and the cover bulges upwardly and has a central opening 60 in which the pintle 11 fits loosely. After the magazines have been filled the cover 58 is applied and the lock 13 applied to hold the cover from being removed. A guard 61 in the form of a concavo-convex disc fits upon the cover 58, there being button-holes 62 and slot 63 extending from the button-holes in the cover 58 and there being rivets 64 fixed in the guard 61, so that the guard may be placed in position with the button 65, upon the lower ends of the rivets 64 passing through the button-holes 62, and the guard 61 is rotated to bring the necks 66 of the rivets 64 into the slot 63. This guard is simply ornamental covering for the lock 13 and pintle 11.

The magazine thus constructed is adapted to rotate freely upon the bearings 3 and 9 in either direction. A rim 67 extends down-

wardly from the bottom 4 between the bottoms of the pockets 23, 24, 25, 26, 27 and 28 and the lower face 68 of this rim runs upon the ball catch 19, there being depressions 69 in the face 68 to receive the ball catch 19 and hold the magazine with the desired chambers 49, 50, 51, 52, 53 and 54 in registration with the coin slot mechanism at the time a package is to be dispensed from the chamber.

The chambers 23, 24, 25, 26, 27 and 28 each have discharge openings 70 at their outer side and each chamber has a longitudinal central slot 71 leading through the back wall 72 and through the bottom 73. The pockets are of a suitable depth to receive the lower package 74 of the column of packages 75 in the chambers 49 to 54, and the opening 71 is to allow the package 74 upon the bottom 73 to slide forwardly through the opening. A door 75' is mounted upon a horizontal pivot 76 at its top and swings freely in the openings 70 to exclude dirt.

Referring to Figs. 2, 4 and 5, walls 77 and 78 are mounted upon the bottom 4 in parallel positions and spaced apart and extending from near the front, backwardly a considerable distance, the walls being held in place by cap screws 79 and 80 shown in Fig. 1. The main operating shaft 81 is mounted transversely through the walls 77 and 78, a rack gear 82 is fixed upon the shaft 81 and recessed into the inner face of the wall 77 and a similar rack gear 83 is fixed upon the shaft 81 and recessed into the inner face of the wall 78. A smaller gear 84 is fixed upon the shaft 81 against the outer face of the wall 77. A larger gear 85 is mounted upon the stub shaft 86 against the outer face of the wall 77 and meshes with the smaller gear 84. A hub 87 extends outwardly from the gear 85 and a smaller gear 88 is fixed upon the hub 87. A segmental gear 89 is mounted upon a pivot 90 fixed in the wall 77 and the segmental gear 89 meshes with the gear 88 as shown in Fig. 1.

An operating lever 91 extends from the gear rack 81 outwardly and forwardly through a slot 92 in the casing portion 21 and has a push button 93 on its forward end outside of the casing, so that when the push button 93 is pressed downwardly the shaft 81 is rotated to operate the gears 82 and 83 in the directions indicated by the arrows 94 and 95 as shown in Fig. 11.

A retractile coil spring 96 is connected to the operating lever 91 and to the top 22 and serves to raise the lever 91 and push button 93 to return the parts to their normal positions.

Gear racks 97 and 98 are recessed into the inner faces of the walls 78 and 77 and slidingly mounted in planes above the gears 82 and 83 and in mesh with the gears, so that when the push button 93 is pressed downwardly the racks 97 and 98 will move forwardly, said racks having gear teeth upon their lower edges.

Pawl teeth 100 are formed upon the upper edges of the gear racks and pawls 101 are mounted in positions to engage the pawl teeth 100 so as to hold the gear racks 97 and 98 from returning after they have started forwardly and until the complete forward movements have been made. After the pawl teeth 100 pass forwardly beyond the pawls 101, the pawls will drag over the teeth upon the return movements.

A bar 102 rigidly connects the rear ends of the racks 97 and 98. The bar 102 may be held against rotation by pins 103 and 104, or in any other suitable way. A pawl base 105 is mounted upon the center of the bar 102 and held against rotation by a pin 106. The upper part of the base 105 is bifurcated. A pawl 107 is mounted in the bifurcation upon a pivot 108. The pawl 107 is adapted to swing forwardly and is over-balanced to swing upwardly to a vertical position and is held from swinging backwardly from the vertical position by a stop pin 109. The over-balancing is obtained by making the lower end of the pawl longer and heavier than the upper end. The projecting upper end of the pawl 107 is in position to move through the wall 72 and engage the package 74 upon the bottom 73 and continued operation causes the pawl to move through the slot 71 and push the package through the openings 70 and the package slides down the delivery chute 110 through the front wall of the casing 21 to the stop 111 from which it may be removed by the purchaser.

The pawl 107 is operated by pressing the push button 93 downwardly to the limit. After the package 74 has been expelled, the column of packages 75 will settle, the push button 93 is released, the spring 96 returns the parts to their normal positions and the pawl 107 swings forwardly and drags under the bottom package.

Latch bars 112 and 113 are mounted against the inner faces of the walls 77 and 79 upon pivot screws 114 and 115 and have teeth 116 and 117 near their forward ends to pass downwardly and engage locking lugs 118 and 119 projecting inwardly from the racks 98 and 97 so as to hold the racks from moving and thereby locking the vending machine against the delivery of goods until the latch bars 112 and 113 are properly operated to release the racks.

Nubs 120 and 121 extend downwardly from the forward ends of the latch bars 112 and 113 and pins 122 and 123 are fixed in these nubs and extend outwardly into the planes of the racks 98 and 97 so that when a coin 124 comes between the front

end of the rack bar 97 and the pin 123, and the push button 93 is operated to move the rack bar 97 forwardly, the coin will engage the pin 123 and raise the latch bar 113 to raise the tooth 117 out of engagement with the lug 119 and unlock that side of the machine.

In the same manner a coin between the front end of the rack bar 98 and the pin 122 will unlock the other side of the machine.

The machine shown and described is to be operated or controlled with a 5¢ coin inserted through the coin slot 125 and a 10¢ coin inserted through the coin slot 126. The 5¢ coin passes through the coin slot 125 and through the chute 127 and follows downwardly into position in front of the rack bar 97, and in a like manner when desired the 10¢ coin is inserted through the slot 126 and passes through the chute 128 and follows downwardly in front of the rack bar 98.

The operation of discharging a package will move the coin forwardly in a horizontal conduit 129 and then the coin will fall downwardly through the conduit 130 and pass backwardly along the incline of the conduit 131 to the coin box 132.

Referring to Fig. 3, the magazine 133 is adapted to contain 5¢ packages in the chamber 49, 10¢ packages in the chambers 50, 51 and 52 and 15¢ packages in the chambers 53 and 54 and the magazine has been rotated to bring the chamber 49 into position to discharge a 5¢ package.

A stop bolt 134 is inserted through the stop bolt hole 38 and the stop bolt hole 47 is left empty so that the stop bolt 134 engages the rear end of the latch bar 112 and raises the tooth 116 out of engagement with the lug 118 and unlocks the 10¢ side of the machine. Then when the nickel is inserted and the push button 93 pressed downwardly, the 5¢ package is delivered.

Pads 135 and 136 are formed upon the rear ends of the latch bars 112 and 113 to be engaged by the lower ends of the bolts 134 and so on, so that the bolts will slide readily on to and off of the pads to operate the latch bars.

A stop bolt 137 is inserted through the bolt hole 37 and the bolt hole 40 is left blank so that when the magazine 133 is operated to bring the chamber 50 into delivery position, the bolt 137 will press downwardly upon the pad 136 and unlock the 5¢ side of the machine and then the insertion of a 10¢ coin through the slot 126 will operate the 10¢ side of the machine.

In a like manner a stop bolt 138 is inserted through the bolt hole 39 and the bolt hole 42 is left blank so that when the magazine 51 is brought into operation the stop bolt 138 will engage the pad 136 and unlock the 5¢ side of the machine.

In a like manner a stop bolt 139 is inserted into the bolt hole 41 and the bolt hole 44 is left blank, then if the magazine 52 is brought into delivery position a stop bolt 139 will engage the pad 136 and unlock the 5¢ side of the machine. The remaining bolt holes 36, 43, 45, 46 and 47 are left blank.

When the magazine is operated to bring the chamber 53 or 54 into position there are no stop bolts to engage either the pad 135 or 136 and both sides of the machine are locked, consequently a 5¢ coin must be inserted through the slot 125 and a 10¢ coin must be inserted through the slot 126 in order to deliver a 15¢ package.

If a different arrangement of packages is desired the stop bolts 134, 137, 138 and 139 or similar stop bolts may be arranged in the series of holes 36 to 47 to suit the occasion.

The coin passages 127, 129, 130 and 131 are recesses upon the inner faces of the walls 77 and 78 and these recesses are covered by plates 140, 141, 142 and 143 as shown in Fig. 6.

There are two coin boxes 132 one for each side and the coin boxes are slidingly mounted through the wall 15 diametrically opposite each other and each box has a lock 144 with a catch 145 engaging the wall 15 so that when the boxes are locked they cannot be removed without unlocking.

It will thus be seen that I have invented a combination of a mechanical and a manual method of vending articles in which the stacks of articles of five, ten and fifteen cent value are positioned to be vended, the five cent stack is placed in such a position that by the utilization of a nickel and the manual operation of the device, a five cent package is vended, the stacks of articles may then be positioned to vend a ten cent article and the utilization of a dime, together with the manual manipulation of the vending device will vend a ten cent package. A further step consists in positioning the stack of articles to vend a fifteen cent article, and in cooperation with the utilization of a dime and a nickel and the manual manipulation of the vending device, a fifteen cent article may be obtained.

Various changes may be made without departing from the spirit of my invention as claimed.

I claim:

1. A coin controlled machine having two coin controlled mechanisms each adapted to be controlled by the insertion of the proper coin, means controlled by the insertion of a coin in one of the coin control mechanisms in cooperation with means controlled by the operation of the machine to eject a certain priced article, means controlled by the insertion of a coin in the other coin controlled mechanism in cooperation with means con-

trolled by the operation of the machine to eject another article of a different price and means controlled by the insertion of coins in both coin controlled mechanisms simultaneously to eject still another article of different price.

2. A coin controlled machine having a vending mechanism, two coin controlled mechanisms for the reception of two different coins, each coin controlled mechanism being normally latched to be released by the insertion of coins and means controlled by a purchaser to unlatch one of the coin controlled mechanisms so that the insertion of a coin in the other coin controlled mechanism will release the vending mechanism.

3. A coin controlled mechanism having a vending mechanism, two coin controlled mechanisms rigidly connected together for simultaneous operation, both mechanisms being normally latched so that it requires the insertion of a coin in each coin controlled mechanism to unlatch and release the vending mechanism and means carried by part of the vending mechanism to unlatch one coin controlled mechanism so that the insertion of a coin in the other coin controlled mechanism controls the ejection of the desired article.

4. A coin controlled machine having a vending mechanism, two coin controlled mechanisms rigidly connected together for simultaneous operation, both coin controlled mechanisms being normally latched so that it requires the insertion of a coin in each coin controlled mechanism to unlatch and release the vending mechanism and means carried by the vending mechanism to unlatch one coin controlled mechanism so that the insertion of a coin in the other coin controlled mechanism controls the ejection of the desired article and means carried by the vending mechanism to unlatch the other coin controlled mechanism so that the insertion of a coin in the first coin controlled mechanism controls the ejection of an article of a different price.

5. A coin controlled machine having a vending mechanism, two coin controlled mechanisms rigidly connected together for simulteneous operation, both coin controlled mechanisms being normally latched so that it requires the insertion of a coin in each coin controlled mechanism to unlatch and release the vending mechanism, an unlatching device carried by the vending mechanism to unlatch one coin controlled mechanism whereby a coin inserted in the other coin controlled mechanism controls the ejection of the desired article and unlatching means carried by the vending mechanism to unlatch the other coin controlled mechanism, whereby a coin may be inserted in the first coin controlled mechanism to control the ejection of an article of a different price, such unlatching means being positioned whereby both coin controlled mechanisms may be left unlatched and a coin inserted in each coin controlled mechanism controls the ejection of an article of a third price.

6. A coin controlled machine having two complete coin controlled mechanisms rigidly connected together, a vending mechanism for supplying articles of various prices into position to be delivered by the coin controlled mechanisms, an operating hand lever for the coin controlled mechanisms and means whereby the insertion of a coin in one coin controlled mechanism controls the ejection of an article of one price and the insertion of a coin in the other coin controlled mechanism controls the ejection of an article of a second price, and the insertion of coins in both coin controlled mechanisms controls the ejection of an article of a third price.

7. A coin controlled machine having two coin controlled mechanisms rigidly connected together to be operated by a single hand lever, a magazine rotatable upon a vertical axis and having chambers containing columns of packages, the columns varying in price and means whereby the insertion of a coin in one coin controlled mechanism controls the ejection of a package of one price, the insertion of a coin in the other coin controlled mechanism controls the ejection of a package of a second price and the insertion of coins in both coin controlled mechanisms controls the ejection of a package of a third price.

8. A vending mechanism having a magazine mounted to rotate upon a vertical axis, having a plurality of chambers adapted to receive columns of packages of different value, means for bringing a desired column of packages of a designated value into a predetermined position and a plurality of coin controlled mechanisms for controlling the expelling of the bottom package of the desired column in accordance with the placing of a single coin in one or a plurality of coins in more than one of the coin controlled mechanisms.

9. A vending machine having a magazine with a plurality of chambers, each chamber being adapted to receive a column of packages, the packages of one column being of a different price than the packages of another column, means for rotating the mechanism and bringing a desired column of packages to a predetermined position and a single coin controlled means whereby an inserted coin of a price of any one of the columns of packages will control the mechanism to expel the bottom package of that column.

10. A vending machine having two coin controlled mechanisms rigidly connected together, one mechanism being controlled by a different coin from the other mechanism and both mechanisms having latching means,

a magazine having chambers containing articles of different prices, means for bringing a desired chamber into position to be operated by the coin controlled mechanisms and means controlled by an inserted coin in either or two coins in both of the coin controlled mechanisms of the proper value to cause the expulsion of the desired article.

11. A vending machine having a magazine with a plurality of chambers adapted to contain columns of packages in the chambers, the packages of one chamber being of different price than the packages of another, means for bringing a desired column of packages into a predetermined position and means controlled by an inserted single coin or a plurality of coins of the proper value to cause a package to be expelled from the bottom of the positioned column.

12. A vending machine having a magazine mounted to rotate upon a vertical axis and provided with a plurality of chambers adapted to receive columns of packages, the packages of one column being of a different price than the packages of another column, means for rotating the magazine to a predetermined position and means controlled by a single inserted coin or a plurality of coins of proper value to cause the lower package of the positioned column to be expelled.

13. A vending machine having two coin control mechanisms operatively connected together, one mechanism being controlled by a coin of different value from the other mechanism, a plurality of chambers, each chamber containing articles of different value from the articles in another chamber, and means controlled by the insertion of a single coin in either of the mechanisms to cause the expulsion of an article from a single chamber of the value of the coin inserted, or by the insertion of a single coin in each of the mechanisms to cause the expulsion of an article from a single chamber of the value of both of the coins.

14. A coin controlled machine having two coin controlled mechanisms, each adapted to be controlled by the insertion of a proper single coin, means controlled by the insertion of a coin in one coin controlled mechanism in conjunction with a means controlled by the operator of the machine to eject a certain priced article, and means controlled by the insertion of coins in both coin controlled mechanisms simultaneously to eject another article of a different price.

15. A vending machine adapted to dispense articles of three different prices and controlled by two coin controlled mechanisms adapted to receive coins of different values, both mechanisms being normally locked and means whereby bringing articles of a desired price to a predetermined position will unlock one coin controlled mechanism so that the insertion of a coin in the other mechanism will allow the expulsion of the desired article.

16. A vending machine mechanism adapted to handle packages of two different prices, means for moving and selectively positioning a column of packages of the desired price, means controlled by a coin inserted in one part of the mechanism and the positioning of the column of packages to allow ejection of a package of the value of the coin, and means controlled by a coin of a different value inserted in another part of the mechanism and by the positioning of the column of packages to allow ejection of a package of the value of the second coin on again positioning the column of packages.

17. A vending machine having a magazine with a plurality of chambers therein adapted to support packages in stacks, said magazine being rotatably mounted on a vertical axis, a coin operated mechanism having a plurality of coin chutes, an operating lever, means operatively connected with said lever to dispense the lowermost package of a stack, a series of adjustable stop bolts connected to the magazine and means forming an operative connection between said stop bolts and the coin chutes whereby a coin may be inserted in one chute to control the operation of the operating lever to dispense a package of one value, and a coin inserted in the other chute controls the operation of the operating lever to dispense a package of a second value and coins inserted in both chutes control the operation of the lever to dispense packages of value of the two coins.

18. A vending machine as claimed in claim 17, in which the means forming an operative connection between the stop bolts and the coin chutes comprises sliding racks moved by the operation of the operating lever and tiltable latch bars positioned to be engaged at their inner end by the stop bolts and have their outer ends positioned to engage the coins in the coin chutes.

19. A coin controlled machine having a plurality of coin passages adapted to receive coins of different value, a coin controlled mechanism for each coin passage, means controlled by a purchaser to allow actuation of one coin controlled mechanism without a coin and the other with a coin and vice versa, to eject packages of different values.

20. A coin controlled machine having a plurality of coin passages adapted to receive coins of different value, a coin controlled mechanism for each coin passage, means controlled by the operator of the machine to allow actuation of one coin controlled mechanism without a coin and the other with a coin, to eject an article of the value of one of the coins, and also to allow actuation by a plurality of coins to eject an article of the value of said plurality of coins.

21. A coin controlled machine having means to contain and supply articles of a plurality of different values, two passages for the insertion of coins of different value, manually operated means and mechanism actuated thereby to vend an article of the value of a coin on the insertion of such coin in the proper passage, or to vend an article of the value of two different coins on the insertion of a coin in each of the passages.

22. A coin controlled machine having means to contain and supply articles of a plurality of different values, means for the insertion of a plurality of coins of different value, manually operated means and mechanism actuated thereby to vend articles of one value on the insertion of a coin having a corresponding value, or to vend an article of a second value on the insertion of a coin having a corresponding value, or to vend an article of a third value on the insertion of coins of two different values, having a value corresponding to that of the third valued article.

In testimony whereof I have signed my name to this specification.

NELS P. PETERSEN.