

July 6, 1926.

1,591,202

J. G. WYNN

VENDING MACHINE

Filed August 27, 1924

3 Sheets-Sheet 1

Fig. 1.

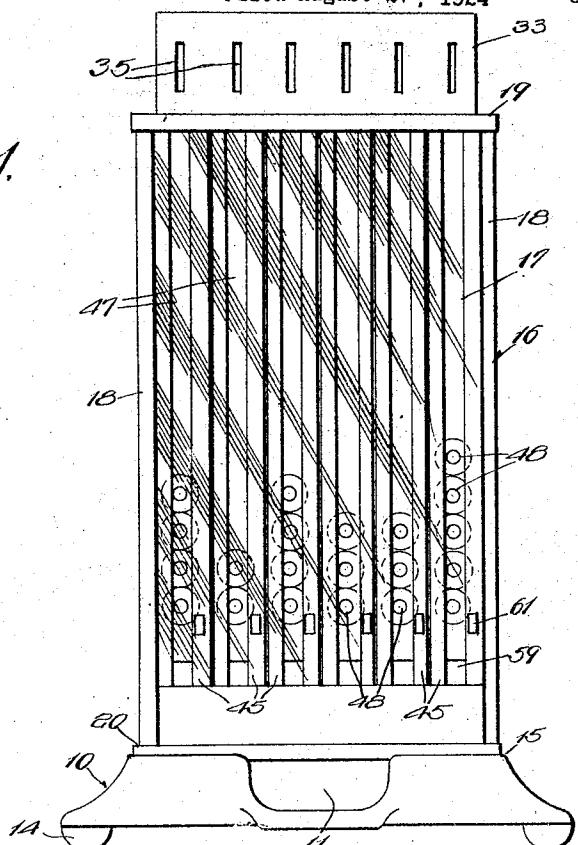


Fig. 4.

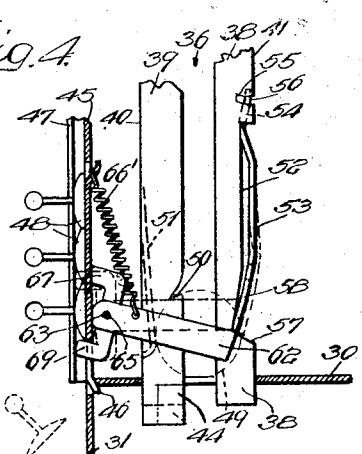
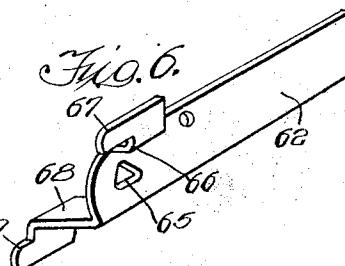
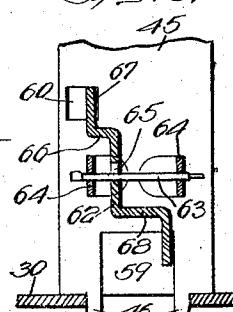


Fig. 5.



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By Brown, Roettke & Diermer  
Attns.

July 6, 1926.

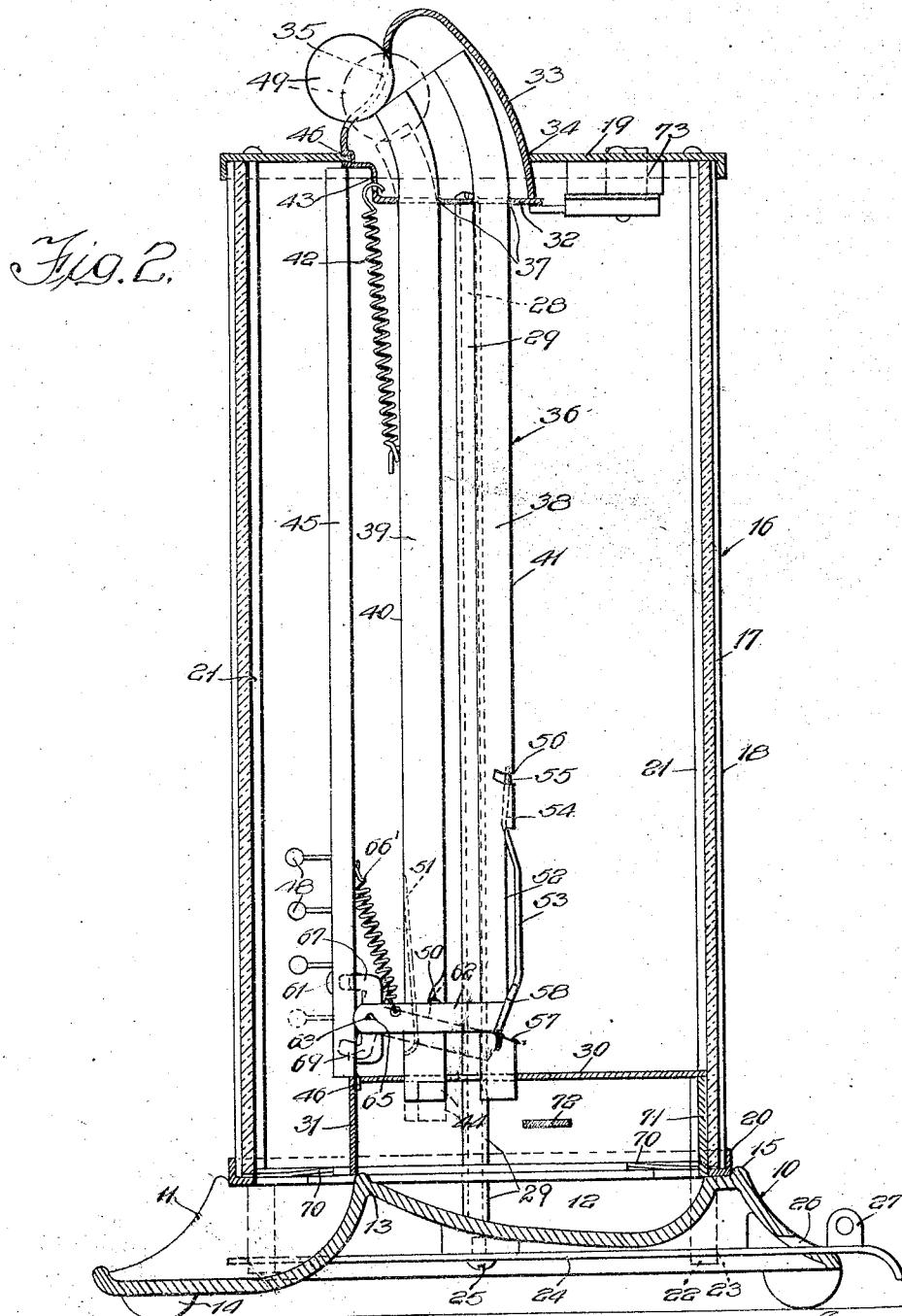
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## VENDING MACHINE

Filed August 27, 1924

3 Sheets-Sheet 2



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July 6, 1926.

1,591,202

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## VENDING MACHINE

Filed August 27, 1924 3 Sheets-Sheet 3

Fig. 3.

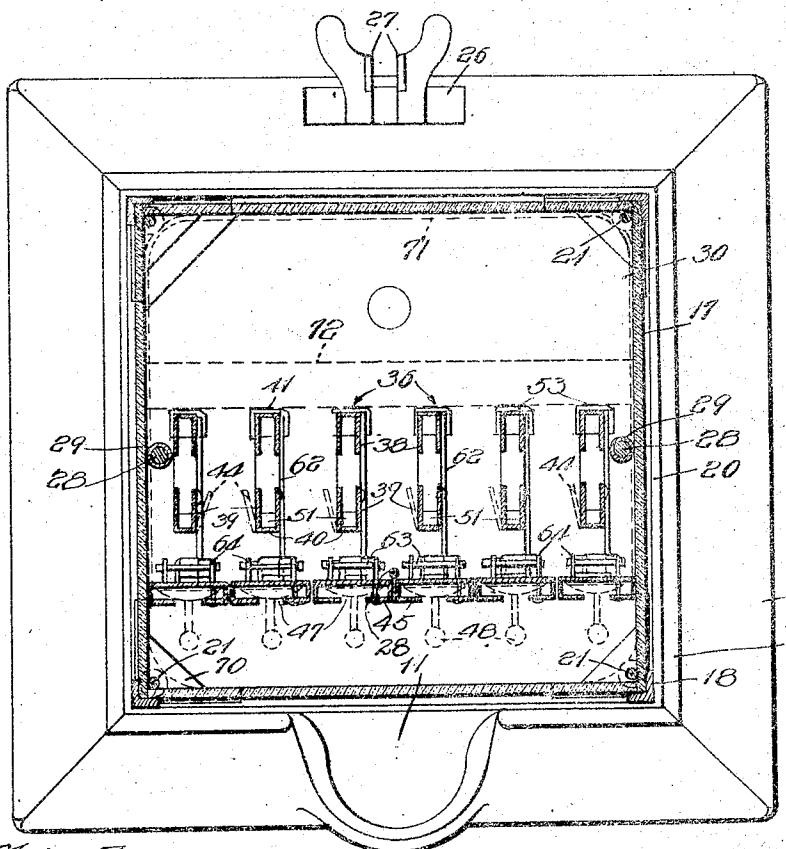


Fig. 7. 47

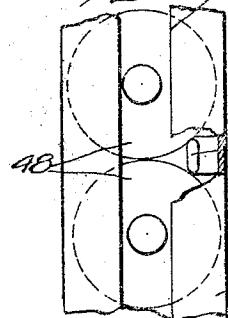


Fig. 8.

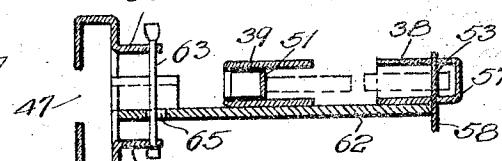
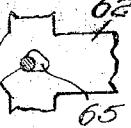


Fig. 9.



Witnesses:

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54475.

Patented July 6, 1926.

1,591,202

# UNITED STATES PATENT OFFICE.

JOHN G. WYNN, OF MADISON, WISCONSIN.

## VENDING MACHINE.

Application filed August 27, 1924. Serial No. 734,373.

This invention has reference to check controlled apparatus, and more particularly to vending machines.

The object of my invention is to provide a novel automatic vending machine, and in particular novel actuating mechanism therefor, which simply requires that the buyer shall insert a coin in the slot, when the merchandise will be delivered automatically to an open compartment from which the merchandise can be easily removed by the buyer.

More particularly, my invention relates to novel improvements in the structures shown in the patents to Holbrook, No. 872,624, December 3, 1907, and No. 879,546, February 18, 1908, the object thereof being to improve the construction of the automatic coin controlled vending machine or mechanism for controlling the automatic delivery of the merchandise upon the insertion of the proper coin, whereby the delivery of the merchandise by fraudulent manipulation is prevented and the operation of the actuating mechanism made more certain and less sensitive, as well as requiring fewer parts of simple construction which readily lend themselves to economical manufacture and obviates the necessity of extreme accuracy in the mounting and adjustment of the parts as heretofore constructed.

More particularly, the invention is designed for use in connection with a button vending machine, adapted upon the insertion of a coin to automatically deliver a button, the checking and control of the feed of which is effected through the medium of the insertion of the coin in the slot and the passing thereof to the coin box or receptacle, the invention residing more specially in the trigger mechanism by which the actuation of the controlling and checking mechanism, including releasing means to permit the bottom article or button to be dropped or delivered into the open compartment from which it may be removed by the buyer, which mechanism is relieved of the objection of being supersensitive and so constructed that mounting and assemblage of the parts is greatly facilitated and quantity production provided for.

Another object of the invention is to provide a novel construction of automatic coin controlled vending machine whereby the delivery of the merchandise by fraudulent manipulation is prevented and the operation of

the actuating mechanism rendered more certain, the number of parts constituting the trigger mechanism reduced to a minimum, and the construction of the coin slot simplified.

Further object and advantages of my invention will become apparent as the description proceeds.

In the drawings:

Fig. 1 is a front elevation of my novel automatic vending machine.

Fig. 2 is an enlarged vertical sectional view thereof showing one of the actuating mechanisms in elevation in conjunction with its coin slot and chute.

Fig. 3 is a horizontal sectional view.

Fig. 4 is a fragmentary sectional elevation showing the trigger mechanism in the position when the coin is about to release same, as distinguished from the checking position shown in Fig. 2 of the drawings.

Fig. 5 is an enlarged fragmentary vertical sectional view looking forwardly toward the button magazine.

Fig. 6 is an enlarged perspective view of the trigger employed and which is shown in normal position in full lines in Fig. 2, and in its extreme or releasing position in dotted lines, and vice versa as to the actuating mechanism shown in Fig. 4.

Fig. 7 is an enlarged fragmentary front elevation partly in section of the button magazine.

Fig. 8 is an enlarged horizontal sectional view of the button magazine and coin chute, together with the actuating mechanism applied thereto; and

Fig. 9 is an enlarged fragmentary view of the trigger of the actuating mechanism and showing the mounting thereof for clearness.

The coin controlled vending machine comprises generally, a case having a top portion in which are coin slots, the case being preferably of glass and the base being of cast metal or suitable heavy material to retain the machine in an upright position and prevent the same from tipping over, the base having a closed coin receptacle and an open compartment through which the merchandise is delivered, and the top of the case having means to cover a series of coin chutes adapted to have a vertical reciprocating movement in the case and cooperating with the coin and actuating mechanism mounted on merchandise delivery hoppers.

or magazines, also positioned in the case, which actuating or trigger mechanism is adapted to engage with a finger on the adjacent coin chute whereby on the dropping 5 of a coin through the coin slot and chute, the actuating mechanism, is operated to automatically deliver one piece of merchandise from the hopper to the open compartment in the base, means in the actuating mechanism on the hopper to prevent fraudulent removal of the merchandise from the hopper, and other details of construction as well be hereinafter more fully described.

Referring to the drawings in detail, in 15 which like reference characters designate corresponding parts throughout the several views, the machine or apparatus includes a base 10 of suitable size and weight provided with a merchandise delivery compartment 20 or tray 11 open at the front, and a money compartment or coin receptacle 12 at the rear portion and divided therefrom by the partition 13 extending transversely of the base. The base is preferably 25 provided with cushion feet 14 which space the same from the supporting surface and at the top with a surrounding flange 15 receiving a case 16 thereon and adapted to house the actuating mechanism of the device. The case 16 is preferably of rectangular cross-section and includes glass panels or other transparencies 17 held in a suitable frame including corner strips 18, extending 30 between a top plate 19 preferably of metal and a bottom frame 20 and constituting spacing means therefor and to prevent pressure on the glass panels when connected by the corner rods or clamping bolts 21 through the medium of nuts 22 threaded on the lower 35 ends thereof and provided with grooves 23 for engagement by locking levers 24 pivoted at 25 on bosses on the bottom of the base shown, said levers extending through a slot 26 and provided with apertured ears 27 for engagement by a padlock to retain the case 40 on the base and prevent access to the interior thereof.

Rods 28 are provided at opposite sides of the base adjacent to or in line with the pivot 50 screws 25, which latter may form retainers therefor although said rods are preferably screwed into the base and have spacing sleeves 29 mounted thereon to support and retain in position an angular bottom plate or partition 30 extending horizontally in spaced relation above the top of the base 10 and having a downwardly extending portion or vertical part 31 engaging in front of the partition 13 to prevent access to the coin receptacle or compartment 12.

An angular top plate 32 is retained on the rods between the headed upper ends thereof and the adjacent ends of the sleeves 29 and a cover 33 is provided thereon and 65 clipped thereto, that is, provided with

tongues engaging slots in the plate 32 at the opening in the top or cover plate 19 of the case, as indicated at 34 and projecting therein to render the fastening means of the cover inaccessible. The cover or hood 33 has a 70 series of vertical coin slots 35 for the insertion of the coins which are designed to pass into the chutes 36 arranged there beneath and having forwardly curved upper ends disposed through slots 37 in the plate 32 in 75 the bottom of the hood or housing, closing the upper ends of the coin chutes. These coin chutes are made up of stationary rear sections 38 which are of channel or U-shaped cross-section, and movable front members or sections 39 also of channel or U-shaped cross-section spaced from the sections or members 38 and having the open sides opposing the open side of the latter and their bight portions facing in opposite directions or located 80 at front and rear edges of the coin chutes as indicated at 40 and 41.

The curved upper ends of the movable front chute sections 39 extend back of the slots 35 and form the restricted openings or entrance ways at the upper ends of the coin chutes, so that the sections 39 must be depressed upon the coins being inserted in the slots 35 and pushed into the chutes. Spring means are provided for holding the section 90 39 upwardly, being shown in the form of coiled springs 42 and secured at one end, namely, the low end, to the chute, and the other end, namely, the upper end, to the bracket or bottom plate 32 of the hood or housing 33 at the angular portion 43 thereof. The lower ends of the coin chutes or sections 38 and 39 thereof engage in slots in the horizontal bottom partition or plate 30, and the sections 39 are limited in their upward movements under the action of the springs 42 as by means of laterally bent portions 44, which engage with the bottom of the plate or partition 30.

Although any number of the coin slots and chutes may be provided, together with a corresponding number of article or button magazines or hoppers 45 as desired, six of such magazines or hoppers are shown in Fig. 1 of the drawings. These magazines are mounted between the plates 30 and 32, having suitable tongues entering slots therein as indicated at 46 and arranged at right angles to the coin chutes 36 at points intermediate their widths. The magazines or hoppers 45 are provided with front slots 47, the sheet material or metal of the magazines being bent so that the edges thereof are in spaced relation, to produce this construction whereby the shanks of the buttons may project therethrough as clearly shown on the drawings, the buttons or other articles to be dispensed by this check controlled apparatus being designated at 48. Obviously, any articles other than buttons, which will be ac- 100 110 115 120 125 130

commodated in the magazines or hoppers, may be sold by the apparatus.

It will thus be seen that the coin chutes are flattened tubes, although composed of 5 two sections as above described, and with slots on the opposite sides, while the merchandise delivery hoppers or magazines are also provided in the form of flattened tubes with slots in one side, that is, in the front 10 to display or disclose to view the buttons or other merchandise held therein.

As trigger mechanisms, cooperating with the coin slots and chutes, and the merchandise or articles such as the collar buttons 48 mounted in the magazines or hoppers 45 positioned at the front of the machine over the delivery compartment 11, and partition wall 31, each movable section 39 is adapted to be depressed, i. e. moved downwardly upon the 20 insertion of a coin designated at 49 into a slot 35 in upper end of the coin chute 36, the section 38 remaining stationary in its fixed position. Near the lower end of the section 39, the latter is provided with a laterally bent horizontal lug 50 which may be pushed from the metal at one side of the chute section 39. The bight portion of the section 38 is provided with an inwardly offset projection 51 preferably formed by cutting or slitting the metal at spaced points so that the intervening part may be pressed inwardly, without severing the ends. This 30 serves to constrict the passageway of the coin chute, as clearly shown in Figs. 2 and 4 of the drawings. The bight portion of the section 38 is cut away or slotted as indicated at 52 opposite the inwardly offset portion 51 and receives a spring strip 53, which spring has its upper end bent inwardly or forwardly at an obtuse angle and the portion 40 therebeyond narrowed in width to provide a reduced portion which is accommodated between the sides and against the bight portion of the U-shaped chute section 38 as indicated at 54, which is suitably anchored as by means of a U-shaped retaining clip 55 extended through a slot formed by a 45 notch at 56 in the bight portion of the section 38 above the slot 52 and the reduced portion 54. The lower end of the spring 53 bows inwardly or forwardly and engages above a V-shaped notch or shoulder 57 formed at the lower end of the slot or cutout 52, and is further provided with a lateral projection 58 extending beyond the side 50 of the chute section 38 for a purpose to be hereinafter made apparent.

Each magazine or hopper 45 is provided at the bottom with an opening or notch 59 and above the same and in rear of one of the inturned side portions of the magazine, with an opening 60 adjacent to which said inturned portion is provided with an outpressed part 61 which like the opening 60, 60 is located to one side of the center of the

magazine while the opening 59 is located centrally of the width thereof, and at the extreme lower end of the magazine or hopper in front of the part 31 and in position to deliver into the compartment or tray 11. 70

A trigger 62 is pivoted on a pin 63 held in opposed spaced ears 64 struck out from the metal of the hopper or otherwise suitably formed, the trigger having a triangular opening 65 receiving the pin for the purpose presently to be described.

It will be noted that the trigger 62 is pivoted near one end, namely, its forward end, and is held upwardly tensioned as by means of a coiled spring 66 connected to it and the magazine 45 thereabove, thus permitting the trigger to be held downwardly by engagement of the lower end of the spring 53 with the top edge thereof but to move from the dotted line position to the full line position shown in Fig. 2 and vice versa in Fig. 4, when the spring 53 is released from the top edge of the trigger as will be later described. At its forward or pivoted end, the trigger is provided with a laterally offset and forwardly extending arm and detent or finger 66 and 67 respectively, and at its lower edge with a lateral arm 68 offset in the opposite direction and provided with a forwardly extending finger 69 adapted to enter the slot 59, while the finger 67 is adapted to enter the opening 60 and project into the path of the merchandise or buttons in the magazine or hopper 45 and intercept the passageway thereof, when the trigger is released and the detent or finger 69 is withdrawn from the passageway or hopper at the opening 59, as will be later more fully described. Spring clips 70 with angularly bent arms, are preferably engaged upon the rods 21 and disposed between the bottom edges of the glass or transparent panels and the bottom spring 20 to take the clamping stresses and obviate the necessity of having the glass 80 ground on the edges and to take the pressure as the rods are tightened up, instead of using felt packing, thereby preventing the glass from breaking. In view of the bend on each leg of the clip or washer, a spring action is provided to give the necessary cushion beneath the glass, and this overcomes the difficulty experienced with felt which was glued in position and soon became loose owing to the glue drying out, the clips taking the pressure from the tie rod 21 rather than the glass, the glass panels fit 90 snug against the sides of merchandise magazines or hoppers 45 and in conjunction with the bottom plate or partition 30 and its vertical wall 31, the escape of coin from the coin receptacle or the possibility of working the same between the panels and the hoppers and robbing of the machines, is prevented. Furthermore, the coins may be hidden from view by means of a plate or baffle

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71 of U-shaped construction which closes the back and sides of the coin receptacle above the top of the base 10 beneath the parts 30 and 31, the sides thereof being connected by cross-strip 72 if desired. Furthermore, in lieu of or in conjunction with the locking means provided between the base and the nut of the tie rod 21, a lock 73 may be provided at the top, being mounted underneath the cover plate 19 to engage beneath the plate 32, being operated by a suitable key from the outside so that the bolt may be projected beneath the plate 32 or retracted therefrom to permit the cover to be locked into position with the case, or removed for obtaining access to the coin receptacle and for refilling the hoppers or magazines, as well as repairs or replacement of parts. The merchandise such as the collar buttons 48, may be the article to be vended or boxes or inclosures containing the same, as it is thought will be apparent.

In the operation of my improved automatic vending machine, the prospective buyer or purchaser inserts a coin of proper denomination, such as a dime, in any one of the desired slots 35. Upon doing so, it is necessary to depress the movable section 39 of the coin chute, to permit the coin to enter the chute, in view of the position of the upper end of the coin chute above the bottom of the slot, thus forcing the section 39 downwardly against the action of the spring 42. Normally, the parts are in the position shown in full lines in Fig. 2 and moved to the dotted line position upon the movable chute section being moved downwardly or depressed on the insertion of the coin. This swings the trigger arm 62 downwardly by engagement of the lug or projection 50 with the top edge thereof, so that the rear or inner end of the trigger 62, which is free, is snapped beneath the lower end of the lateral projection of the spring 53, it being understood that the latter is normally tensioned inwardly or forwardly into the opening or notch 52 and the portion 57 thereof at the bottom of the opening 52. The downward movement of the chute section 39 as it is depressed to swing the trigger 62 downwardly, causes the latter to move against the action of the retractile spring 66' and the triangular hole or opening in the trigger compensates for the pivotal action thereof owing to the long leverage produced at the inner arm compared to the outer arm, and provides the necessary clearance to insure efficient and positive operation and prevent fraudulent operation, requiring the proper coin. This is apparent in view of the fact that in the normal position of the device, the finger or detent 67 of the arm 66 is engaged in the opening 60 and intercepts one of the buttons 48 in the magazine or hopper 65 so that the latter are prevented from drop-

ping down, while the detent or finger 69 of the arm 68 is disengaged or moved out of the path of the magazine or hopper passage at the opening 59. However, upon the coin being inserted and dropping in the coin chute, it strikes the offset or projection 51 and the coin strikes against the spring 53 at its lower end, the impact displacing the spring inwardly or rearwardly at its lateral offset portion 58, from the top edge of the trigger 62 in the manner shown in the dotted lines in Fig. 4 of the drawing, from the position shown in dotted lines in Fig. 2 and in full lines in Fig. 4, in which latter position, the detent opening 69 serves to engage the lowermost button or article to be vended through the opening 59 and prevents displacement thereof from the magazine or hopper, while the finger or detent 67 is withdrawn from the opening 60 and does not impede the downward travel of the button or the like. The spring 53 being released from the top edge and rear end of the trigger 62 as adjusted, the latter moves upwardly under the action of the spring 66', releasing the button at the finger 69 and moving the finger 67 into engaging position to intercept the passageway of the hopper as the button or an article is released and permitted to drop down into the merchandise receptacle or tray 11 and removed by the purchaser. As the spring 53 is released from the trigger 62, the trigger moves up into engagement with the lateral projection 50, the latter forming a stop to limit the upward movement of the trigger and insure of its downward movement upon the coin being inserted in the slot 53 and chute 36 to again depress the movable section 39 as already described. This operation is the same in each of the devices, in which different articles or types of buttons may be retained for dispensing purposes, if desired. Furthermore, it will be seen that the operation of the device is automatic, except for the insertion of the coin manually in the slot and the downward pressure on the movable section 39 of the coin chute in pushing the coin into the coin chute against the tension of the spring 42. The trigger 62 is held upwardly by the spring 66' and the movable section of the chute is held upwardly by the spring 42 so that instantly after inserting the coin in the chute, the latter is returned or raised to its normal position. The trigger 62 at its beveled inner end is again in position for engagement by the spring 53 and the fingers 67 and 69 act to release and check the discharge of the articles of merchandise or buttons from the hopper. All of the articles of merchandise in the hopper are positively locked against fraudulent manipulation and the article to be vended is only released by the actual striking of the coin against the projection 130

51 and spring 53 in its passage down the coin chute, for subsequent discharge at the lower end thereof into the coin receptacle 12 from which the coins may be removed at intervals.

5 The trigger mechanism by which the device is actuated to release the button or the article of merchandise, is an extremely simple construction and it will be seen by reason of the pivotal arrangement of the trigger 62 at its forward end, that an extremely long leverage is provided at the inner end, thus avoiding a multiplicity of part, apparent in prior constructions as above noted and short leverages, which tend to make the trigger very sensitive and operable upon being vibrated without the insertion of a coin or such as to render the delivery of but one of the articles positively controllable. In addition, the construction of the parts as 10 described obviates necessity of minute mounting, adjusting, and assemblage and decreases the cost of manufacture as well as facilitating the same and lending economy and facility to quantity production. The 15 triangular hole or opening in the trigger provides for clearance and the location of the trigger is wholly dependent upon the tension of the spring in its upper position, and as travel is imposed on the trigger, the 20 lower fulcrum comes to a stop which in turn releases the top fulcrum and permits the top support to be thrown from the button slot or passageway of the hopper. In connection with the foregoing, attention is 25 called to Fig. 2 of the drawings in which the coin is shown in position entering the slot 35, the coin being indicated at 49 as heretofore stated. Prior to entering the chute 36, the coin takes the position shown in solid 30 lines as distinguished from the entering position as shown in dotted lines. The movable section 39 being depressed the coin can then enter the chute 36 and travel downward therein to be subsequently deposited 35 into the coin receptacle 12. Upon the coin striking the spring 53 while the latter is holding the trigger lever 62 downward subsequent to the same being lowered by the 40 downward movement of the section 39 and the engagement of the lug 50 with the upper edge of the trigger, the coin may strike the projection 51 and owing to the constricted portion or throat between the same and the lower end of the spring 53, the latter will be displaced from the solid line position shown in Fig. 4 of the drawings to the dotted line position illustrated therein, thereby releasing the trigger 62 and permitting the same to move upward to the solid 45 line position shown in Fig. 2 or the dotted line position shown in Fig. 4. During this movement, the fingers 67 and 69 will be actuated as heretofore described and the coin will pass into the tray or receptacle 12, the button or other article being simultaneously 50

delivered and the remaining ones checked.

Without further elaboration the foregoing will so fully explain the gist of my invention, that others may, by applying current knowledge, readily adapt the same for use under various conditions and service, without eliminating certain features which may properly be said to constitute the essential items of novelty involved, which items are intended to be defined and secured to me 75 by the following claims.

I claim:

1. An automatic vending machine comprising a case, a coin slot being provided therein, an open compartment, a coin receptacle, a coin chute adapted to have a reciprocating movement, a merchandise hopper action, actuating mechanism around the hopper, the normal position of which locks the merchandise in the hopper, said actuating mechanism consisting of a single pivoted trigger member provided with oppositely arranged fingers adapted to alternately intercept the hopper, and a spring adapted to engage the trigger to lock the same in one 80 position for release by the contact with said spring of a coin inserted in the chute.

2. An automatic vending machine comprising a case, a coin slot being provided therein, an open compartment, a coin receptacle, a coin chute adapted to have a reciprocating movement, a merchandise hopper actuating mechanism on the hopper, the normal position of which locks the merchandise in the hopper, said actuating mechanism consisting of a single pivoted trigger member provided with oppositely arranged fingers adapted to alternately intercept the hopper, and a spring adapted to engage the trigger to lock the same in one position for 85 release by the contact with said spring of a coin inserted in the chute, said chute being adapted upon the insertion of the coin to move the trigger to a position for engagement by the spring.

3. An automatic vending machine comprising a case, a coin slot being provided therein, an open compartment, a coin receptacle, a coin chute adapted to have a reciprocating movement, a merchandise hopper actuating mechanism on the hopper, the normal position of which locks the merchandise in the hopper, said actuating mechanism consisting of a single pivoted trigger member provided with oppositely arranged fingers adapted to alternately intercept the hopper, and a spring adapted to engage the trigger to lock the same in one position for release by the contact with said spring of a coin inserted in the chute, said chute being adapted upon the insertion of the coin to move the trigger to a position for engagement by the spring, said coin chute adapted to move the trigger to a set position and simultaneously release the upper finger thereof and move the lower 100 105 110 115 120 125 130

finger thereof in an engaging position, the insertion of a coin in the chute serving to release the trigger whereby the upper finger will move to an engaging position and the lower finger to a disengaging position to release the lower article held in the merchandise hopper.

4. An automatic vending machine comprising a case, a coin slot being provided therein, an open compartment, a coin receptacle, a coin chute adapted to have a reciprocating movement, a merchandise hopper, actuating mechanism on the hopper, the normal position of which locks the merchandise in the hopper, said actuating mechanism consisting of a trigger pivoted near one end and having detents adapted to extend through the passageway of the hopper, a spring normally holding the trigger in one position to check the fall of the merchandise in the hopper above the lowest and to release the lowest, and means carried by the coin chute and engageable directly with the trigger to hold the latter in a downward position against the action of said spring means and adapted to be engaged upon the insertion of the coin to release the trigger.

5. A vending machine of the check controlled class comprising a case having a coin slot, a coin chute having a stationary portion and a movable portion, a lug on the movable portion, a spring carried by the stationary portion, a magazine adapted to receive the article to be vended, a trigger pivoted thereto and adapted to be engaged by the spring for retaining the articles in the magazine, said movable portion of the chute being adapted to be moved downwardly to move the trigger into the last named position by engagement of the lug therewith, and means to hold said movable portion of the chute upwardly.

6. A vending machine of the check controlled class comprising a case having a coin slot, a coin chute having a stationary portion and a movable portion, a lug on the movable portion, a spring carried by the stationary portion, a magazine adapted to receive the article to be vended, a trigger pivoted thereto and adapted to be engaged by the spring for retaining the articles in the magazine, said movable portion of the chute being adapted to be moved downwardly to move the trigger into the last named position by engagement of the lug therewith, upon the insertion of the coin into the chute through said slot, means to hold said trigger in an upward position, the coin in passing through the chute adapted to release the spring from its holding position with the trigger.

7. A vending machine of the check controlled class comprising a case having a coin slot, a coin chute having a stationary portion and a movable portion, a lug on the

movable portion, a spring carried by the stationary portion, a magazine adapted to receive the articles to be vended, a trigger pivoted thereto and adapted to be engaged by the spring for retaining the articles in the magazine, said movable portion of the chute being adapted to be moved downwardly to move the trigger into the last named position by engagement of the lug therewith, upon insertion of the coin into the chute through said slot, means to hold said trigger in an upward position, the coin in passing through the chute adapted to release the spring from its holding position with the trigger, said lug serving to limit the upward movement of the trigger to a normal position to check the fall of the articles in the magazine, said trigger having upper and lower detents adapted to alternately project through the magazine to check and release the articles therein.

8. A vending machine of the check controlled class comprising a case having a coin slot, a coin chute having a stationary portion and a movable portion, a lug on the movable portion, a spring carried by the stationary portion, a magazine adapted to receive the articles to be vended, a trigger pivoted thereto and adapted to be engaged by the spring for retaining the articles in the magazine, said movable portion of the chute being adapted to be moved downwardly to move the trigger into the last named position by engagement of the lug therewith, upon insertion of the coin into the chute through said slot, means to hold said trigger in an upward position, the coin in passing through the chute adapted to release the spring from its holding position with the trigger, said lug serving to limit the upward movement of the trigger to a normal position to check the fall of the articles in the magazine.

9. A vending machine of the check controlled class comprising a case having a coin slot, a coin chute having a stationary portion and a movable portion, a lug on the movable portion, a spring carried by the stationary portion, a magazine adapted to receive the article to be vended, a trigger pivoted thereto and adapted to be engaged by the spring for retaining the articles in the magazine, said movable portion of the chute being adapted to be moved downwardly to move the trigger into the last named position by engagement of the lug therewith, upon insertion of the coin into the chute through said slot, means to hold said trigger in an upward position, the coin in passing through the chute adapted to release the spring from its holding position with the trigger, said lugs serving to limit the upward movement of the trigger to a normal position to check the fall of the articles in the magazine, said trigger having an angular opening therein.

at the pivot to permit displacement of the trigger in its checking and releasing positions.

10. In a vending machine embodying a case, a coin chute having a stationary section and a movable section, a merchandise hopper, actuating mechanism on the hopper, the normal position of which locks the merchandise in the hopper, embodying a trigger pivoted near one end and having arms provided with fingers adapted to extend into the passageway of the hopper, said movable section of the chute serving to move the trigger into one position, and means carried by the stationary section of the chute to hold the trigger in the last named position and designed upon the entry of the coin therein to release said trigger for movement to another position.

20. 11. A vending machine of the class described including a case having a check slot, a chute through which the check is adapted to pass, said chute having a stationary section and a movable section, a merchandise hopper, a trigger having a long arm adapted to be engaged by the movable section of the chute for movement to one position, offset arms on the trigger having fingers to project alternately into the hopper upon opposite movement of the trigger, and means mounted on said stationary section and adapted to hold the trigger in the first named position and to release the same upon the insertion and dropping of a coin or check 35 in the chute.

12. An automatic vending machine comprising a case, a coin slot being provided therein, an open compartment, a coin receptacle, a coin chute adapted to have a reciprocating movement, a merchandise hopper actuating mechanism on the hopper, the normal position of which locks the merchandise in the hopper, said actuating mechanism consisting of a trigger having fingers 40 cooperative with the hopper and merchandise therein, said chute having a movable section and a stationary section, and means carried by the stationary section and cooperative with the trigger to hold the same in 45 one position, and whereby on the entering of a coin through the coin slot into the coin chute, the trigger and its fingers first assume an extreme operative position to release the

bottom article of the merchandise, then an intermediate position to lock the merchandise in the hopper, the coin serving to release the trigger and the movable portion of the chute serving to move the same into position upon engagement by the holding means thereof.

13. In a check controlled vending machine, a merchandise hopper having a pair of openings therein, a trigger pivoted to the hopper and having oppositely extending offset arms with fingers adapted to extend into said openings as the trigger is swung on its pivot, said fingers being alternately operative to check and release the articles of merchandise held in the hopper, a coin chute having a movable portion movably contacting with the trigger and a stationary section with an opening therein, and means held in the opening of said stationary section and cooperating with the trigger and the movable portion of said coin chute for holding or releasing said trigger.

14. A vending machine having a merchandise hopper and a movable coin chute disposed in spaced relation, said coin chute having a stationary portion, said hopper and coin chute each having openings therein, single trigger mechanism for discharging merchandise adapted to move into and out of the openings in said hopper and chute, a lug on the movable portion of said chute 85 adapted to engage said trigger mechanism for operating same upon movement of the chute, and means carried by the stationary section of the chute to hold said trigger mechanism in one position, said means being releasable upon the insertion of a coin and the dropping of same through the chute.

15. In a vending machine, a coin chute having a stationary and a movable section, a merchandise hopper, a pivotally mounted trigger member having arms provided with fingers adapted to alternately intercept the hopper, and means on said stationary section adapted to engage the trigger to hold the same in one position for release by the 100 contact with said means of a coin inserted in the chute.

In witness whereof, I hereunto subscribe my name this 12th day of August, 1924.

JOHN G. WYNN.