

1,060,204.

Fig. 1.

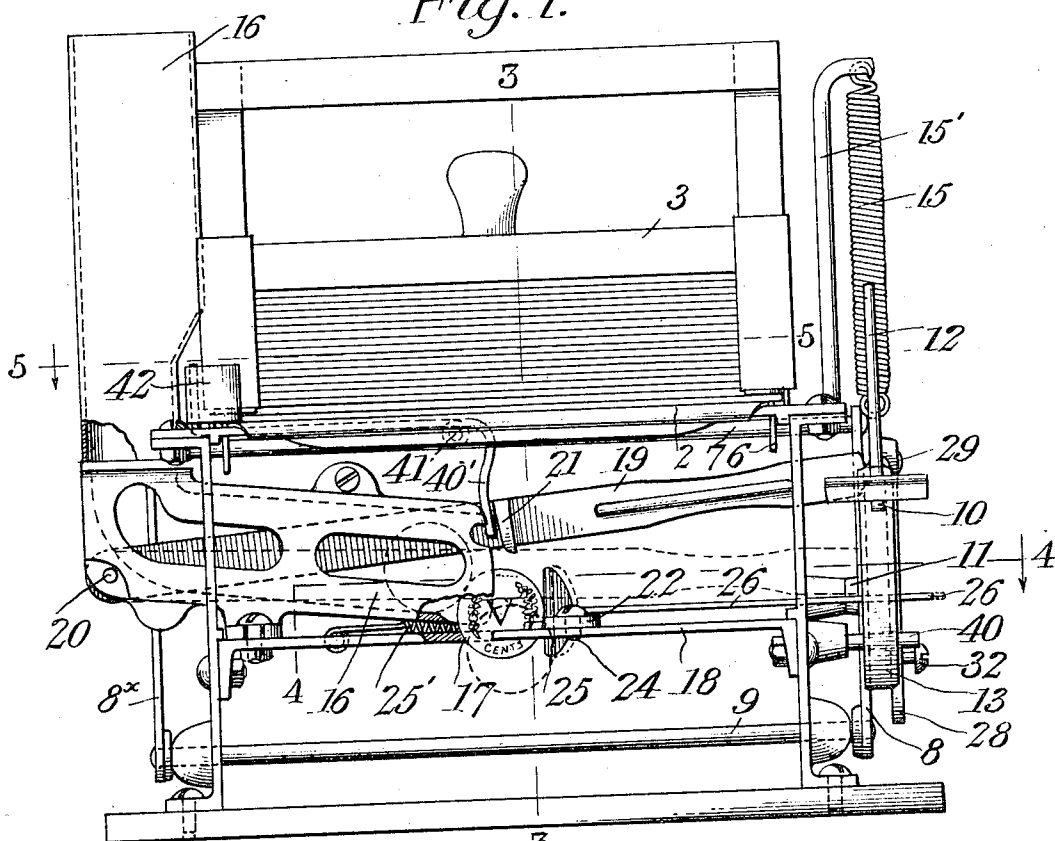
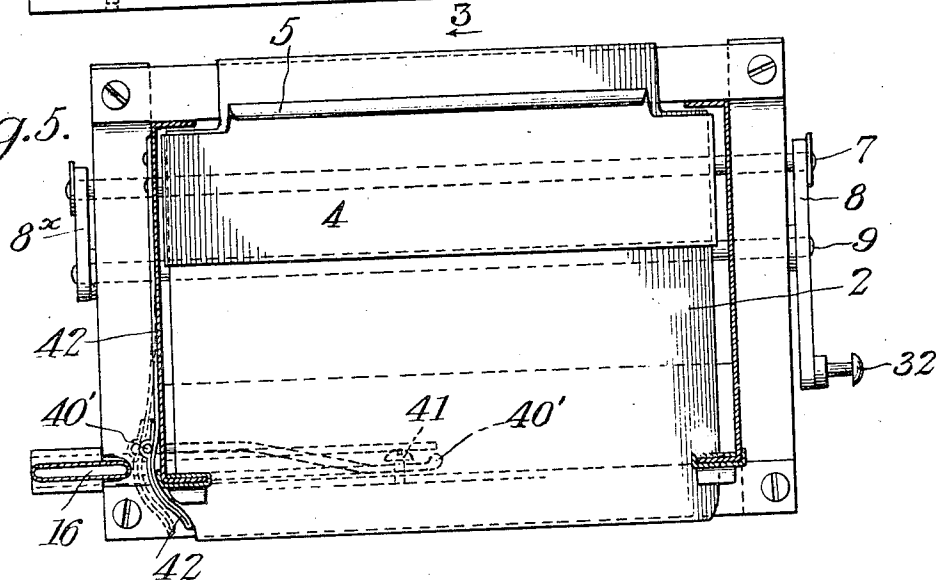


Fig. 5.



WITNESSES
Fenton S. Belt
A. L. Haugh

INVENTOR
C. E. Morrison,
By Franklin D. Haugh Attorney

Patented Apr. 29, 1913.

3 SHEETS—SHEET 2.

1,060,204.

Fig. 2.

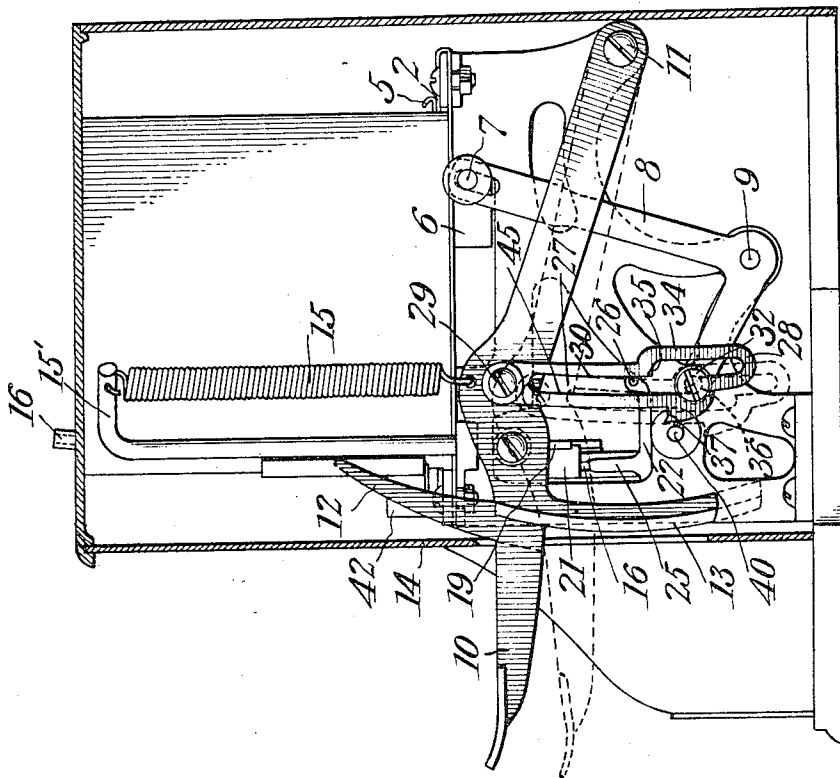
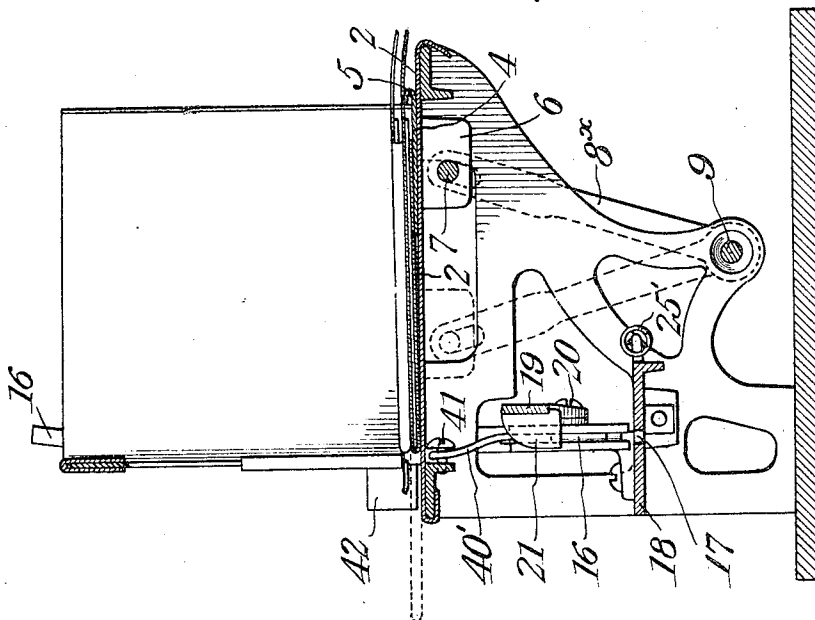


Fig. 3.



WITNESSES

Fenton S. Belt
 A. L. Kough

INVENTOR

C. E. Morrison,
 By *Franklin D. Hoy* Attorney

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Fig. 2.^a

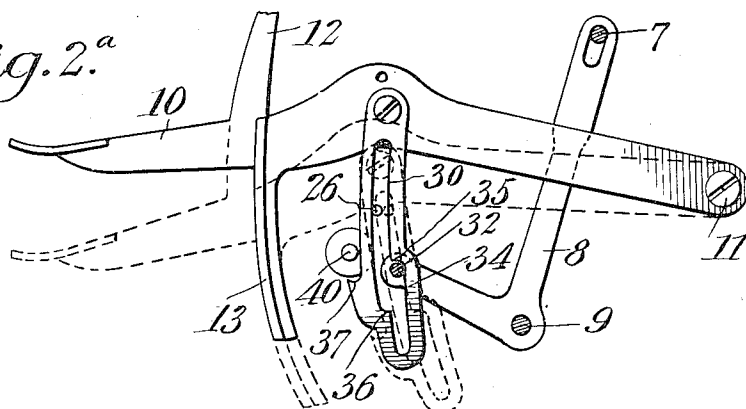


Fig. 4.

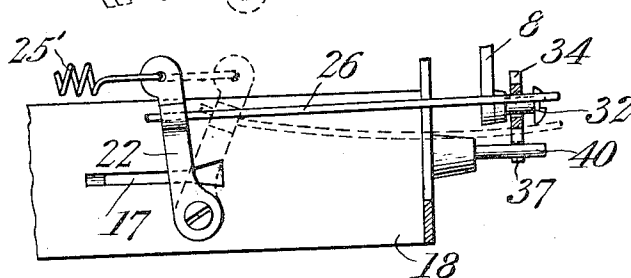
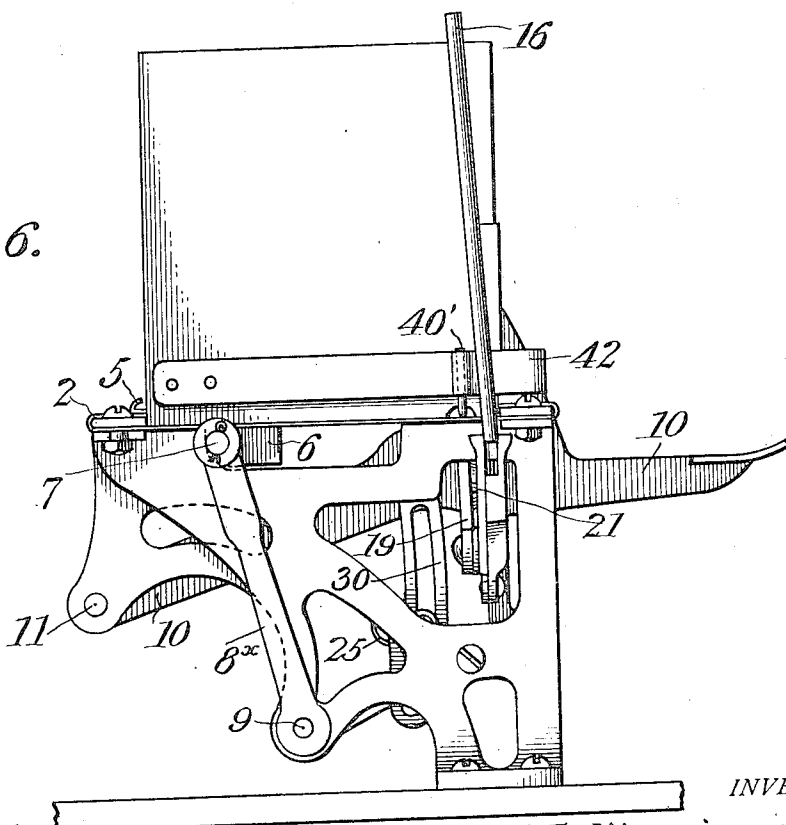


Fig. 6.



WITNESSES

Fenton Belt
 a. L. Hough

INVENTOR

C. E. Morrison,
 By *Franklin H. Hoy* Attorney

UNITED STATES PATENT OFFICE.

CLARENCE E. MORRISON, OF ALBANY, NEW YORK.

STAMP-VENDING MACHINE.

1,060,204.

Specification of Letters Patent.

Patented Apr. 29, 1913.

Application filed August 30, 1912. Serial No. 717,947.

To all whom it may concern:

Be it known that I, CLARENCE E. MORRISON, a citizen of the United States, residing at Albany, in the county of Albany and State of New York, have invented certain new and useful Improvements in Stamp-Vending Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in article delivery slot machines and so arranged that a coin cooperates with the lever to cause the apparatus to be thrown into operative position and in the provision of means for preventing the delivery of but a single article for each coin inserted in the machine.

The invention consists further in the provision of an article delivery coin-controlled apparatus in which but one coin is allowed at a time to be thrown into position to allow the apparatus to be operated, a following coin being automatically released after the article is delivered.

The invention comprises various details of construction and combinations and arrangements of parts which will be hereinafter fully described, shown in the accompanying drawings and then specifically defined in the appended claims.

My invention is illustrated in the accompanying drawings, in which:—

Figure 1 is a side elevation of my improved vending apparatus. Fig. 2 is an end view. Fig. 2^a is a detail in elevation of a part of my invention. Fig. 3 is a sectional view on line 3—3 of Fig. 1. Fig. 4 is a sectional view on line 4—4 of Fig. 1. Fig. 5 is a sectional view on line 5—5 of Fig. 1, and Fig. 6 is an end view opposite the view taken in Fig. 2.

Reference now being had to the details of the drawings by numeral, 1 designates the frame of the apparatus having a table 2 upon which the articles to be delivered, such as envelopes containing souvenir cards or any other articles, are adapted to rest, and a follower 3 rests upon the upper surface of the pile of articles in order to hold the same with the undermost of the series of

articles against said table. A slide 4 is mounted upon said table and has its rear edge turned to form a flange 5 adapted to engage the edge of the lower of the pile of articles to be delivered for the purpose of moving the same horizontally through the delivery opening of the receptacle. Lugs 6 project at right angles from the slide 4 and each is apertured for the reception of the shaft 7 which projects beyond the ends of the receptacle. An angle lever 8 is fastened to one projecting end of the shaft 7 and a bar 8^x is fastened to its other end and the long arm of the angle lever and said bar 8^x are pivotally connected to the shaft 9, the ends of said bar 8^x and angle lever, which are connected to the shaft 9, being provided with elongated slots in order to allow the shaft carrying the angle lever and bar to rock freely.

An operating lever 10 is mounted upon a pivot 11 and provided with laterally projecting portions 12 and 13 which are provided for the purpose of normally closing the slot in the casing 14 in which the operative parts of the apparatus are mounted and thereby prevent any one tampering with the mechanism through the slot in which the lever has an oscillating movement. A spring 15 is fastened at one end to the lever 12 and its other end to a projecting end of the rod 15 which is fastened at its lower end to the frame adjacent to one end of the article holding receptacle. The purpose of said spring is to normally hold the lever at its farthest upper limit.

A coin chute 16 leads to any suitable location, preferably underneath the table, as shown in Fig. 1 of the drawings, where the exit end thereof terminates adjacent to one end of the slot 17 formed in the shelf 18 located underneath and parallel to the table upon which the articles are held. Pivoted to the operating lever 10 is a bar 19 which in turn is pivotally connected at 20 to the wall of the coin chute and at a location opposite the open exit end of the latter is provided with a lateral projection 21 and so positioned that, when a coin has been inserted in the chute, it falls by gravity to a position underneath the projection 21 so that, when the bar 19 is moved downward under a depression of the operating lever, said projection 21 will come in contact with the upper edge of the coin and force the same through the slot 17 in said shelf. The coin

is prevented, after reaching a position under the projection 21, from falling through the slot by the lever 22 which is pivotally mounted upon a pin 24 upon the shelf and is provided with an upwardly projecting lug 25 in direct alinement with the coin chute, forming an abutment for the coin. Said lever 22, it will be noted, crosses the coin slot in the shelf but, when it is moved backward by the lever forcing a coin against said lug and lever 22, the coin will be allowed to fall through the slot. Said lever 22 is held in its normal position by means of a spring 25 which is fastened at one end to a part of the frame and at its other end to the end of said lever 22. A rod 26 is fastened to the lever 22 and extends through one end of the frame and through the elongated slot 27 upon the link 28, which latter is pivoted at its upper end upon a pin 29 projecting from the lever 10. The slot 27 of said link is provided with an offset 34 and has two shoulders 35 and 36 formed in the walls of the slot at positions diagonally opposite each other and has a shoulder 37 formed upon the outer edge thereof.

It will be noted upon reference to Fig. 2 of the drawings that said rod 26 is normally positioned adjacent to the edge 30 of the slot in the link and, in the event of a person depressing the operating lever without first inserting a coin in the chute, as the operator lever is depressed said edge 30 coming in contact with the rod will serve to cause the link to tilt to the right, as shown in dotted lines in Fig. 2^a of the drawings, so that the shoulder 35 will be thrown out of contact with the lug 32 which projects laterally from the short arm of the angle lever 8 and hence prevent the angle lever from causing an article to be delivered. When the operating shaft returns to its normal position, the shoulder 37 upon said link comes in contact with said lug 32, preventing the further upward movement of the link. A lug 40 projects from one end of the frame and is adapted to contact with the shoulder 37 in the event of the operator depressing the coin only part way down to its lowest limit, thus preventing the delivery of a second article by the employment of but a single coin. Said projection coming in contact with the shoulder 26 will prevent the delivery slide from returning to its normal position after having been partially moved forward, making it necessary to depress the operating lever to its lowest limit before said slide may be returned to position to engage another article to be delivered.

In order to prevent two coins being fed forward to operative positions underneath the depressible bar 19, I provide a spring-actuated, L-shaped wire 40, one end of which projects down into the slot at the exit end of the coin chute and in the path of the coin

and rests upon a pin 41, while its other end is fastened to a spring 42 secured to the outer wall of the receptacle in which the articles to be delivered are placed. One end of said spring 42 is positioned in the path of the article being delivered so that, as the article comes in contact with the end of the spring thus positioned, it will cause the same to swing and move the angled coin-containing member with it and which will hold a succeeding coin back out of operative position until the coin being acted upon in advance of it has been discharged through the slot in the shell. After the article has been delivered, the spring and hook wire will return to their normal positions and allow the coin to roll down to operative position when the lever is again depressed.

The operation of my vending machine is as follows:—A series of articles, such as in the instance illustrated envelopes which may contain souvenir cards, etc., are placed on the shelf, preferably with the backs of the envelopes down and the tongues projecting through the open back of the receptacle. When the slide is in its normal position, the flange thereon will be positioned adjacent to the open edge of the envelop of the lowermost of the series, the follower placed upon the pile of envelopes, holding the same in contact with the table and slide. As a coin is dropped into the chute, it rolls to the position shown in Fig. 1 of the drawings and is prevented from falling through the slot in the shelf by the pivotal lever 22. The coin being in the position shown is directly underneath the projection upon the bar 19. When the operating lever is depressed, the projection 21 coming in contact with the coin will cause the same to be depressed and the coin crowding against the lever 22 will cause the same to tilt upon its pivot which in turn will cause the rod which is fastened to said lever 22 to bear against the edge 45 of the slot in the link and throw the same laterally to the position shown in dotted lines in Fig. 2 of the drawings, which will cause the shoulder 35 to contact with the lug upon the short arm of the lever 8 and a further depression of the operating lever will cause the angle lever to rock and move the slide forward, the latter pushing the lowermost of the envelopes through the opening in the receptacle containing the same where a person may take hold of the envelop and pull the same out from the receptacle. As the envelop is pushed through the opening, one edge thereof will contact with the spring 42 and cause the angled wire fastened thereto to draw back into the exit end of the slot and prevent a second coin from rolling into an operative position underneath the projection upon the bar 19 until after the article has been delivered, after which the spring 42 and the angled wire will return to their

normal positions and allow the coin to roll down against the lever 22 in operative position to allow the apparatus to deliver a second envelop upon a repetition of the operation described. In the event of a coin being inserted in the apparatus and the operating lever depressed only a short distance, not sufficient to cause the coin to pass through the slot in the shelf and in which event the operator would release pressure from the operating handle, the shoulder upon the outer edge of the link would come in contact with the projection upon the frame and prevent the operating lever returning to its normal position and also the slide, thereby preventing the delivery of a second article by the employment of a single coin.

What I claim to be new is:—

1. A coin-controlled vending apparatus comprising a frame, a table for containing the articles to be delivered, a coin chute, a pivotal lever in the path of the coin and forming a stop therefor, a pivotal bar mounted upon the frame and adapted to contact with the coin to cause the latter to tilt said lever, a rod projecting from said lever, an operating lever pivoted to said bar, an article delivery member upon said table, a rock shaft, connections between the same and said member, a link pivoted to the operating lever and actuated by said rod to cause the link to be thrown into operative position to cause the shaft to rock as the operating lever is depressed, as set forth.

2. A coin-controlled vending apparatus comprising a frame, a table for containing the articles to be delivered, a coin chute, a pivotal lever in the path of the coin and forming a stop therefor, a pivotal bar mounted upon the frame and adapted to contact with the coin to cause the latter to tilt said lever, a rod projecting from said lever, an operating lever pivoted to said bar, an article delivery member upon said table, a rock shaft, connections between the same and said member, a link pivoted to the operating lever and actuated by said rod to cause the link to be thrown into operative position to cause the shaft to rock as the operating lever is depressed, and mechanism for preventing a second coin from coming into operative position until an article has been delivered, as set forth.

3. A coin-controlled vending apparatus comprising a frame, a table for containing the articles to be delivered, a coin chute, a pivotal lever in the path of the coin and forming a stop therefor, a pivotal bar mounted upon the frame and adapted to contact with the coin to cause the latter to tilt said lever, a rod projecting from said lever, an operating lever pivoted to said bar, an article delivery member upon said table, a rock shaft, connections between the same and

the member, a link pivoted to the operating lever and provided with an elongated slot having a shoulder in the edge of the slot, said rod adapted to move the link as the operating lever is depressed, causing the rod to tilt, and means actuated by the shoulder of the slot as the link is depressed further causing said shaft to rock and deliver an article, as set forth.

4. A coin-controlled vending apparatus comprising a frame, a table for containing the articles to be delivered, a coin chute, a pivotal lever in the path of the coin and forming a stop therefor, a pivotal bar mounted upon the frame and adapted to contact with the coin to cause the latter to tilt said lever, a rod projecting from said lever, an operating lever pivoted to said bar, an article delivery member upon said table, a rock shaft, an angle lever fixed to said shaft and having pivotal connection with the delivery member, a lug upon one arm of said angle lever, a link pivoted to the operating lever and having an elongated slot through which said rod extends, one edge of the slot having a shoulder which is thrown by the rod into position to engage said lug as the operating lever is depressed, as set forth.

5. A coin-controlled vending apparatus comprising a frame, a table for containing the articles to be delivered, a coin chute, a pivotal lever in the path of the coin and forming a stop therefor, a pivotal bar mounted upon the frame and adapted to contact with the coin to cause the latter to tilt said lever, a rod projecting from said lever, an operating lever pivoted to said bar, an article delivery member upon said table, a rock shaft, an angle lever fixed to said shaft and having pivotal connection with the delivery member, a lug upon one arm of said angle lever, a link pivoted to the operating lever and having an elongated slot with an offset therein and two diagonally disposed shoulders formed in the opposite edges of the slot, one of said shoulders being adapted as the link is tilted by said rod to contact with said lug to cause the shaft to rock as the operating lever is depressed, the other shoulder adapted to contact with said lug to rock the shaft in the opposite direction, returning the article delivery member to its normal position, as set forth.

6. A coin-controlled apparatus comprising a frame, a table for containing the articles to be delivered, a coin chute, a pivotal lever in the path of the coin and forming a stop therefor, a pivotal bar mounted upon the frame and adapted to contact with the coin to cause the latter to tilt said lever, a rod projecting from said lever, an operating lever pivoted to said bar, an article delivery member upon said table, a rock shaft, an angle lever fixed to said shaft and having

pivotal connection with the delivery member, a lug upon one arm of said angle lever, a link pivoted to the operating lever and having an elongated slot formed in the opposite edges of the slot, one of said shoulders being adapted as the link is tilted by said rod to contact with said lug to cause the shaft to rock as the operating lever is depressed, the other shoulder adapted to contact with said lug to rock the shaft in the opposite direction, returning the article delivery member to its normal position, a lug projecting from the frame of the apparatus, and a shoulder upon the outer edge of the link adapted to contact with said lug upon the frame to prevent the operating lever from returning to its normal position without first being depressed to its lowest limit, as set forth.

7. A coin-controlled apparatus comprising a frame, a table for containing the articles to be delivered, a coin chute, a pivotal lever in the path of the coin and forming a stop therefor, a pivotal bar mounted upon the frame and adapted to contact with the coin to cause the latter to tilt said lever, a rod projecting from said lever, an operating lever pivoted to said bar, an article delivery member having a flanged edge for engagement with the edge of the article to be delivered, a rock shaft mounted upon the frame, an angle lever fixed to said shaft and having pivotal connections with said member, a lug projecting from one arm of the angle lever, a pivotal link upon the operating lever and provided with an elongated slot with an offset therein, shoulders formed upon the opposite edges of the slot, which are adapted to engage the lug at positions diametrically opposite as the operating lever is moved in opposite directions thereby causing the delivery member to be thrown forward and returned to its starting position, said link being moved to operative position by said rod as the coin is forced against the tilting lever by said pivotal bar, as set forth.

8. A coin-controlled apparatus comprising a frame, a table for containing the articles to be delivered, a coin chute, a pivotal lever in the path of the coin and forming a stop therefor, a pivotal bar mounted upon the frame and adapted to contact with the coin to cause the latter to tilt said lever, a rod projecting from said lever, an oscillating spring-pressed lever pivoted to said bar, an article delivery member having a flanged edge for engagement with the edge of the article to be delivered, a rock shaft mounted upon the frame, an angle lever fixed to said shaft and having pivotal connections with said member, a lug projecting from one arm of the angle lever, a pivotal link upon the operating lever and provided with an elongated slot with an offset therein,

shoulders formed upon the opposite edges of the slot, which are adapted to engage the lug at positions diametrically opposite as the operating lever is moved in opposite directions, thereby causing the delivery member to be thrown forward and returned to its starting position, said link being moved to operative position by said rod as the coin is forced against the tilting lever by said pivotal bar, as set forth.

9. A coin-controlled apparatus comprising a frame, a table for containing the articles to be delivered, a coin chute, a pivotal lever in the path of the coin and forming a stop therefor, a pivotal bar mounted upon the frame and adapted to contact with the coin to cause the latter to tilt said lever, a rod projecting from said lever, a rod upon said frame, a spring fastened to the rod, an oscillating lever secured to the spring and pivoted to said bar, an article delivery member having a flanged edge for engagement with the edge of the article to be delivered, a rock shaft mounted upon the frame, an angle lever fixed to said shaft and having pivotal connections with said member, a lug projecting from one arm of the angle lever, a pivotal link upon the operating lever and provided with an elongated slot with an offset therein, shoulders formed upon the opposite edges of the slot, which are adapted to engage the lug at positions diametrically opposite as the operating lever is moved in opposite directions, thereby causing the delivery member to be thrown forward and returned to its starting position, said link being moved to operative position by said rod as the coin is forced against the tilting lever by said pivotal bar, as set forth.

10. A coin-controlled vending apparatus comprising a frame, a table, an article delivery member movable thereon, a rock shaft mounted upon the frame, an angle lever fixed to said shaft, pivotal connections between the angle lever and the delivery member, an operating lever mounted upon the frame, a link pivoted to said operating lever and provided with an elongated slot having an offset therein forming two diagonally disposed shoulders, a lug projecting from the angle lever and adapted to be engaged by said shoulders as the operating lever is depressed and returns to its normal position, thereby causing the shaft to rock in opposite directions to deliver an article and return said delivery member to its starting position, a coin chute, a bar pivotally mounted at one end upon the frame and its other end pivoted to the operating lever, a pivotal lever in the path of the coin, a rod projecting from the pivotal lever and adapted to actuate said link as the operating lever is depressed, causing said bar to force the coin against the pivotal lever causing the same to tilt, as set forth.

11. A coin-controlled vending apparatus comprising a frame, a table, an article delivery member movable thereon, a rock shaft mounted upon the frame, an angle lever fixed to said shaft, pivotal connections between the angle lever and the delivery member, an operating lever mounted upon the frame, a link pivoted to said operating lever and provided with an elongated slot having an offset therein forming two diagonally disposed shoulders, a lug projecting from the angle lever and adapted to be engaged by said shoulders as the operating lever is depressed and returns to its normal position, thereby causing the shaft to rock in opposite directions to deliver an article and return said delivery member to its starting position, a coin chute, a bar pivotally mounted at one end upon the frame and its other end pivoted to the operating lever, a projection upon said bar adapted to depress the coin, a pivotal spring-pressed lever mounted in the path of the coin and adapted to be moved as the bar forces a coin against the same on a depression of the operating lever, a rod fixed to said pivotal lever and passing through the slot in said link and adapted to throw the latter into operative position as the coin is depressed, as set forth.

12. A coin-controlled vending apparatus comprising a frame, a table, an article delivery member movable thereon, a rock shaft mounted upon the frame, an angle lever fixed to said shaft, pivotal connections between the angle lever and the delivery member, an operating lever mounted upon the frame, a link pivoted to said operating lever and provided with an elongated slot having an offset therein forming two diagonally disposed shoulders, a lug projecting from the angle lever and adapted to be engaged by said shoulders as the operating lever is depressed and returns to its normal position, thereby causing the shaft to rock in opposite directions to deliver an article and return said delivery member to its starting position, a coin chute, a bar pivotally mounted at one end upon the frame and its other end pivoted to the operating lever, a projection upon said bar adapted to depress the coin, a pivotal spring-pressed lever mounted in the path of the coin and adapted to be moved as the bar forces a coin against the same on a depression of the operating lever, a rod fixed to said pivotal lever and passing through the slot in said link and adapted to throw the latter into operative position as the coin is depressed, a spring fastened upon the frame and having one end projecting in the path of the articles to be delivered, and means fastened to said spring and disposed in said slot to prevent a second coin being fed forward to operative position until the coin being acted upon has been delivered, as set forth.

13. A coin-controlled vending apparatus comprising a frame, a table, an article delivery member movable thereon, a rock shaft mounted upon the frame, an angle lever fixed to said shaft, pivotal connections between the angle lever and the delivery member, an operating lever mounted upon the frame, a link pivoted to said operating lever and provided with an elongated slot having an offset therein forming two diagonally disposed shoulders, a lug projecting from the angle lever and adapted to be engaged by said shoulders as the operating lever is depressed and returns to its normal position, thereby causing the shaft to rock in opposite directions to deliver an article and return said delivery member to its starting position, a coin chute, a bar pivotally mounted at one end upon the frame and its other end pivoted to the operating lever, a projection upon said bar adapted to depress the coin, a pivotal spring-pressed lever mounted in the path of the coin and adapted to be moved as the bar forces a coin against the same on a depression of the operating lever, a rod fixed to said pivotal lever and passing through the slot in said link and adapted to throw the latter into operative position as the coin is depressed, a spring fastened to the frame and having one end projecting in the path of the articles to be delivered, an angled wire fastened to said spring and having an end movable in the slot at the exit end thereof, as set forth.

14. A coin-controlled vending apparatus comprising a frame, a table, an article delivery member movable thereon, a rock shaft mounted upon the frame, an angle lever fixed to said shaft, pivotal connections between the angle lever and the delivery member, an operating lever mounted upon the frame, a link pivoted to said operating lever and provided with an elongated slot having an offset therein forming two diagonally disposed shoulders, a lug projecting from the angle lever and adapted to be engaged by said shoulders as the operating lever is depressed and returns to its normal position, thereby causing the shaft to rock in opposite directions to deliver an article and return said delivery member to its starting position, a coin chute, a bar pivotally mounted at one end upon the frame and its other end pivoted to the operating lever, a projection upon said bar adapted to depress the coin, a shelf upon said frame provided with a slot, a spring-pressed lever pivoted to said shelf and disposed across said chute in the path of the coin, a rod fixed to said pivotal lever and passing through the slot in said link and adapted to throw the latter into operative position as the coin is depressed, a spring fastened to the frame and having one end projecting in the path of the article to be delivered, an angled

wire fastened to said spring and having an end movable in the slot at the exit end thereof, as set forth.

15. A coin-controlled vending apparatus
5 comprising a frame, a table, an article delivery member movable thereon, a rock shaft mounted upon the frame, an angle lever fixed to said shaft, pivotal connections
10 between the angle lever and the delivery member, an operating lever mounted upon the frame, a link pivoted to said operating lever and provided with an elongated slot
15 having an offset therein forming two diagonally disposed shoulders, a lug projecting from the angle lever and adapted to be engaged by said shoulders as the operating lever is depressed and returns to its normal position, thereby causing the shaft to
20 rock in opposite directions to deliver an article and return said delivery member to its starting position, a coin chute, a bar pivotally mounted at one end upon the frame and its other end pivoted to the operating

lever, a projection upon said bar adapted to depress the coin, a pivotal spring-pressed lever mounted in the path of the coin and adapted to be moved as the bar forces a coin against the same on a depression of the operating lever and provided with an upwardly extending lug disposed in alignment with the delivery end of the coin chute, a rod fixed to said pivotal lever and passing through the slot in said link and adapted to throw the latter into operative position as the coin is depressed, a spring fastened to the frame and having one end projecting in the path of the article to be delivered, an angled wire fastened to said spring and having an end movable in the slot at the exit end thereof.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

CLARENCE E. MORRISON.

Witnesses:

EDWIN G. DAY,
FRANCIS KIMBALL.