C. C. TRAVIS.

VENDING MACHINE.

APPLICATION FILED FEB. 18, 1907.

910,246.

Patented Jan. 19, 1909.

3 SHEETS—SHEET 1.

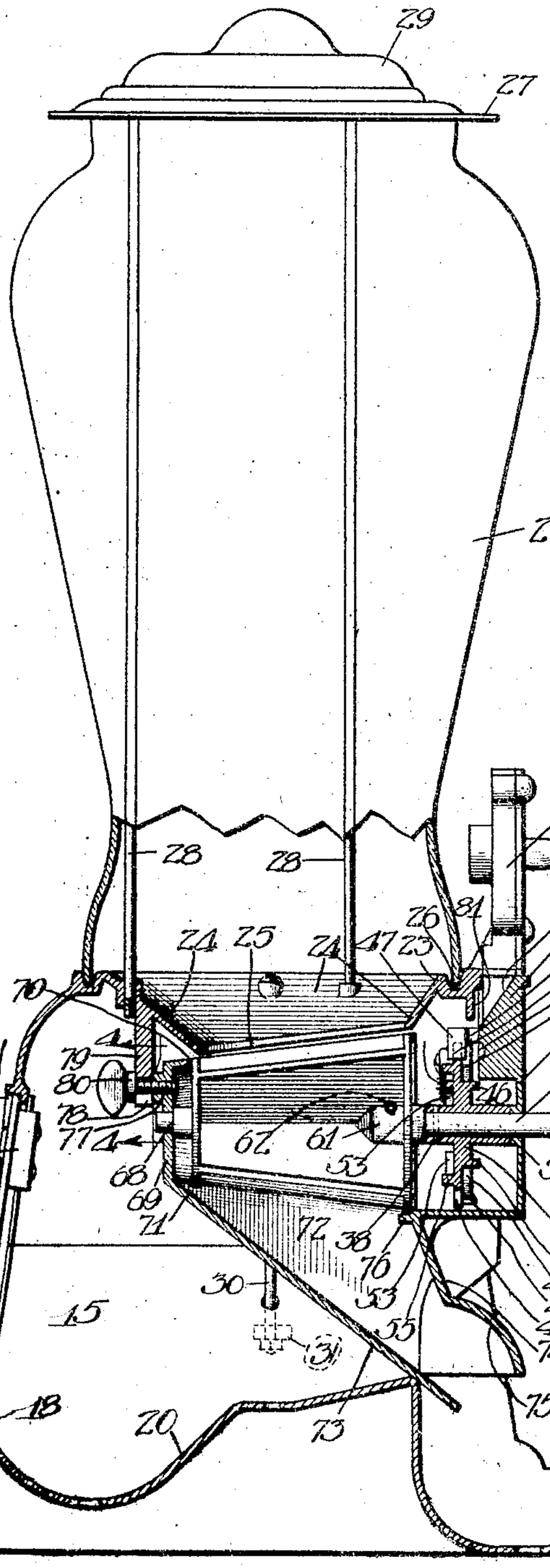

Fig. 1.

Witnesses,
Chas. D. Perry
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3 SHEETS—SHEET 2.

Fig. 2.

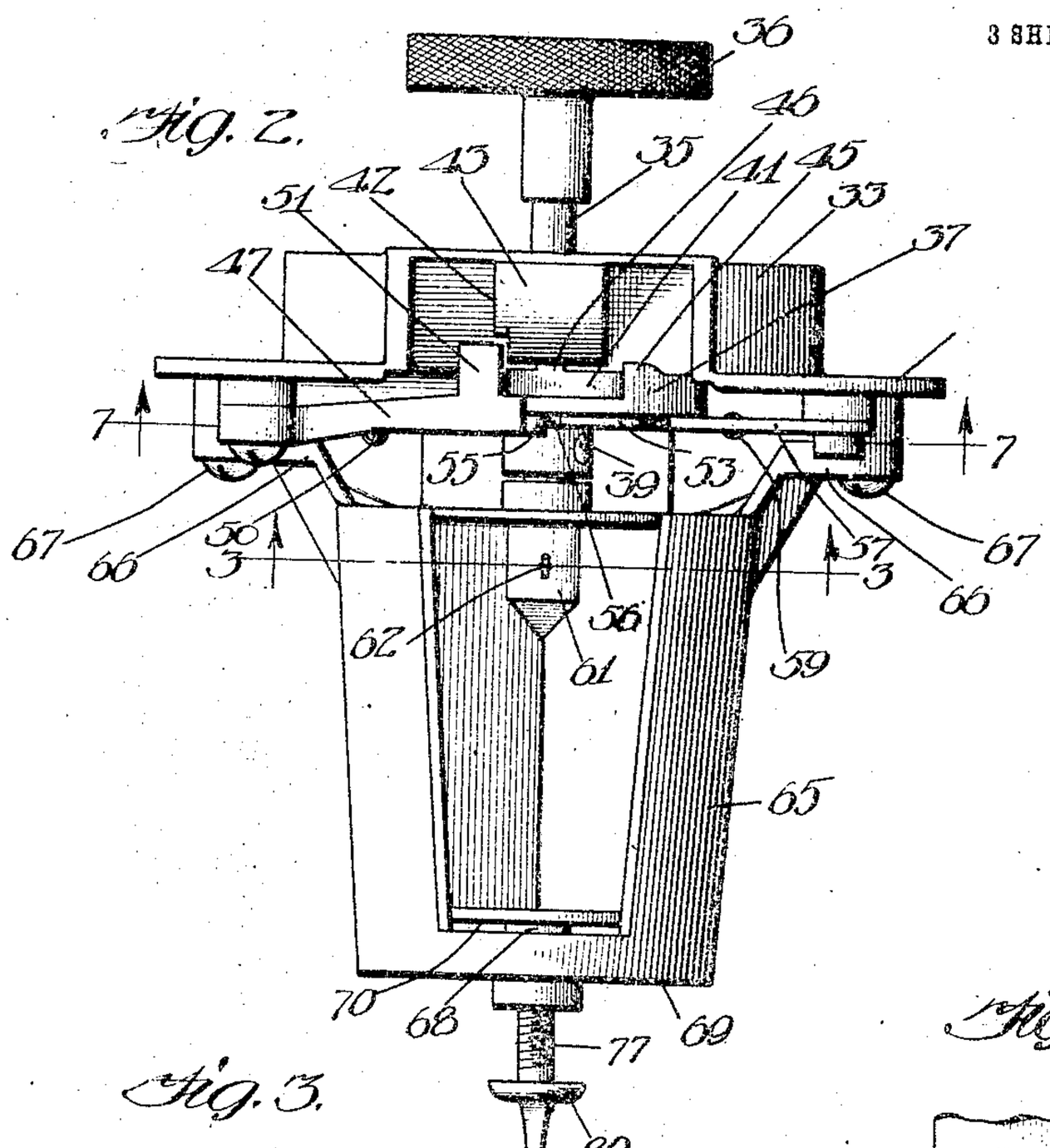

Fig. 4.

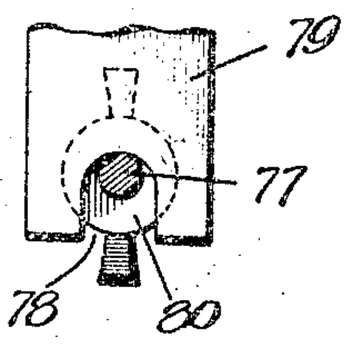

Fig. 3.

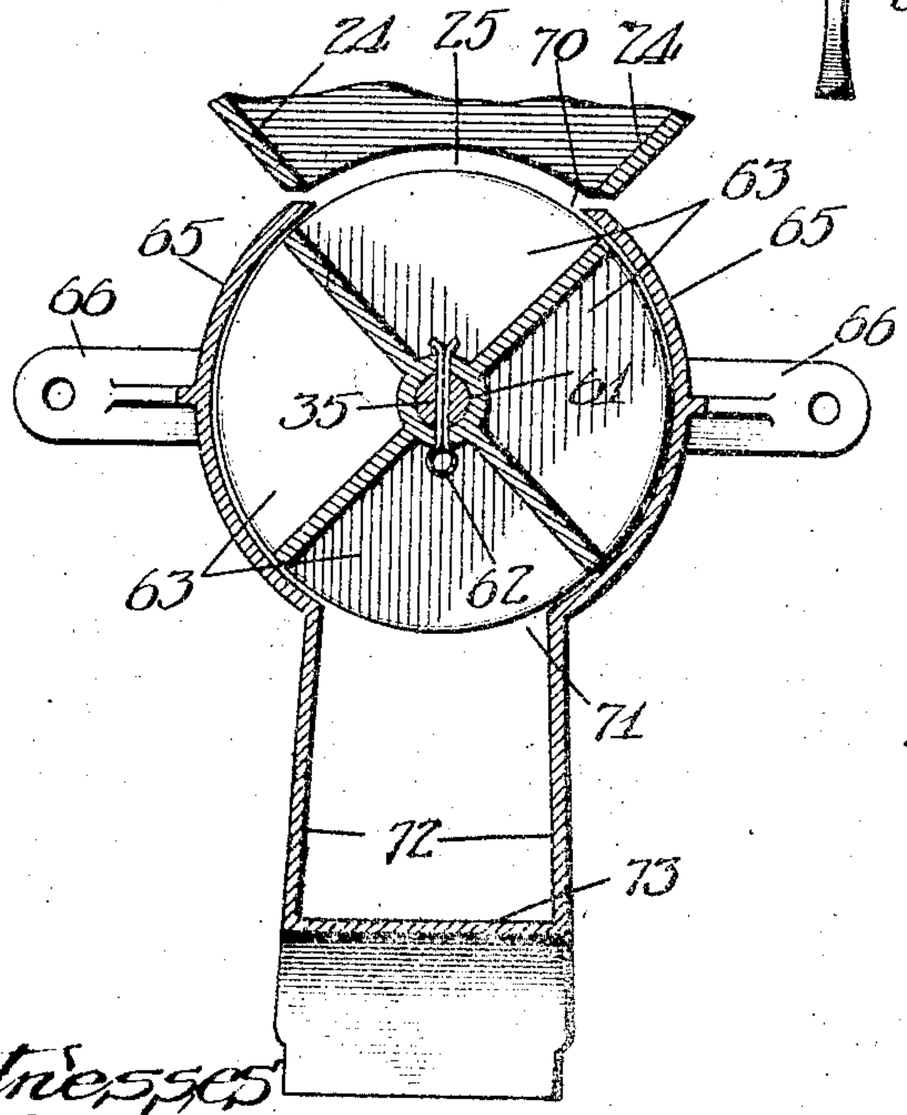

Fig. 5

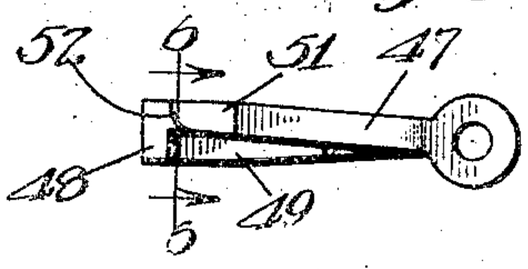

Fig. 6.

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3 SHEETS—SHEET 3.

Fig. 7.

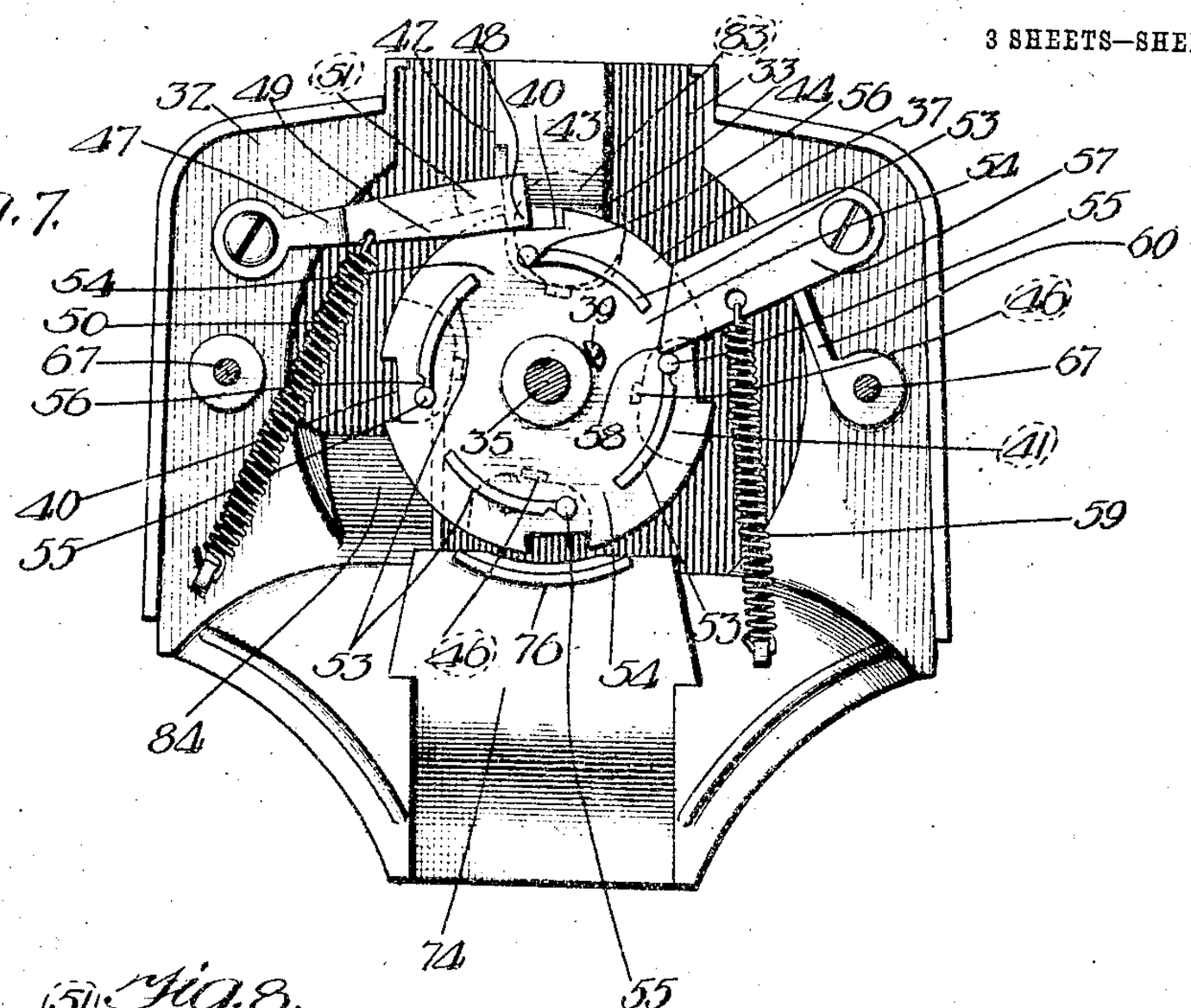


Fig. 8.

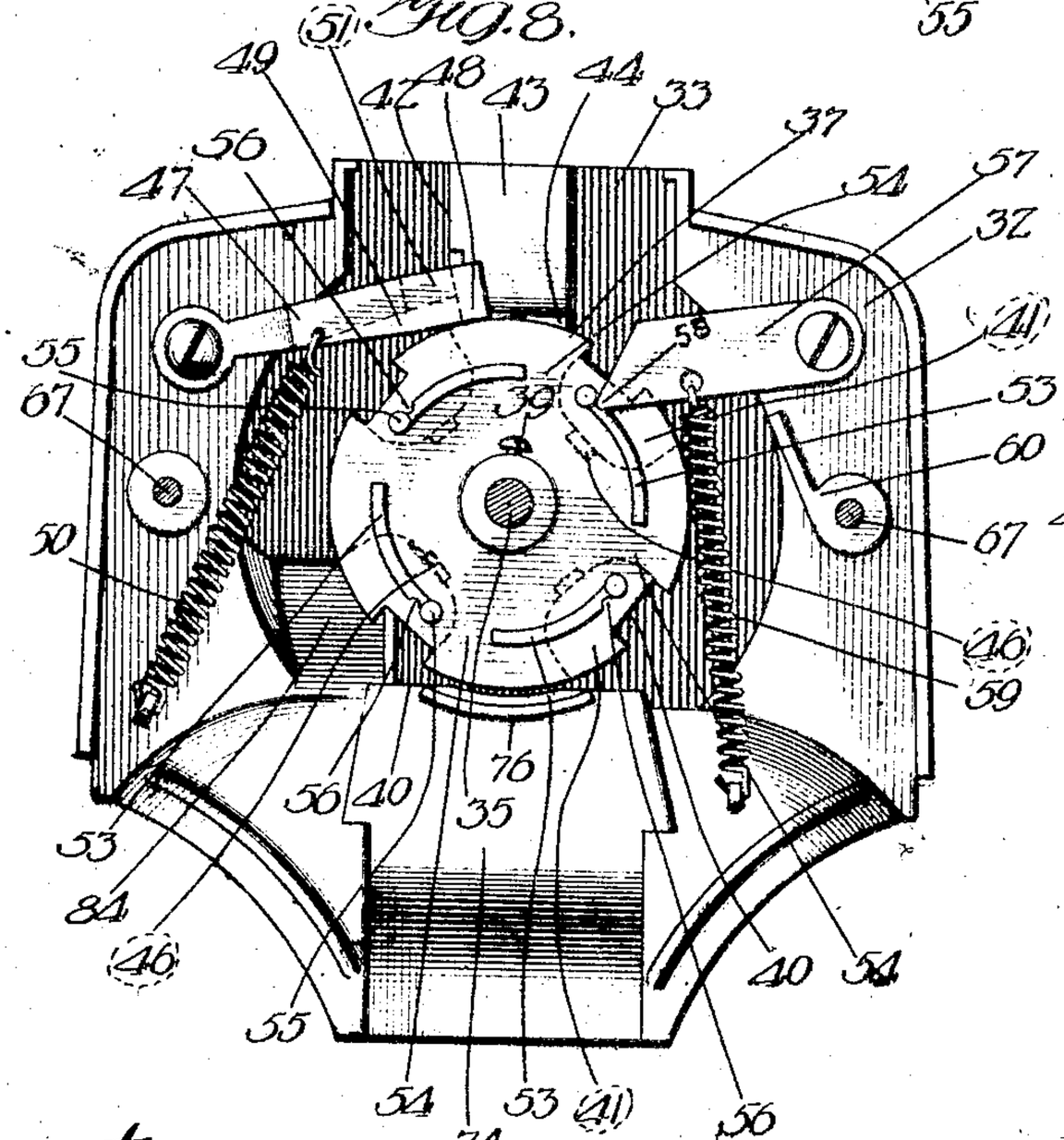
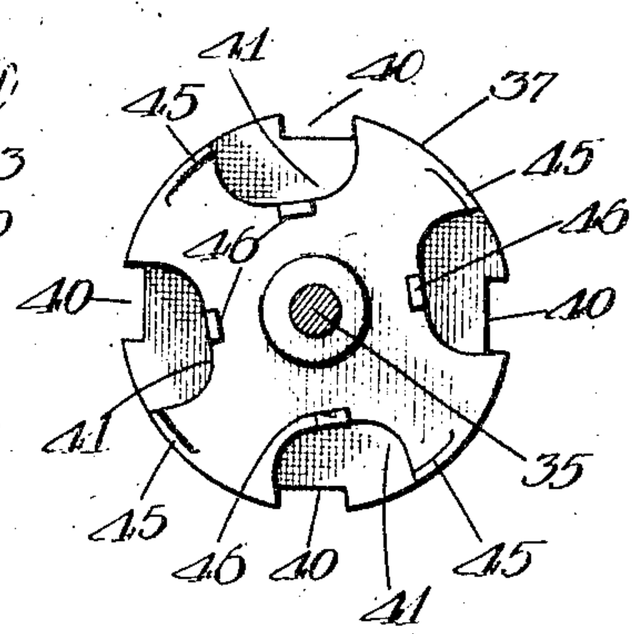


Fig. 9.



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UNITED STATES PATENT OFFICE.

CLARENCE C. TRAVIS, OF CHICAGO, ILLINOIS.

VENDING-MACHINE.

No. 910,246. Specification of Letters Patent. Patented Jan. 19, 1909.

Application filed February 18, 1907. Serial No. 357,815.

To all whom it may concern:

Be it known that I, CLARENCE C. TRAVIS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Vending-Machines, of which the following is a full, clear, and exact specification.

This invention relates to improvements in vending machines, and the object of the same is to provide an improved device of this character in which the operating mechanism is compactly arranged, and which may be bodily removed from the machine.

A further object is to provide an improved check-controlled mechanism.

A further object is to provide an improved device of this character which will be simple and inexpensive in construction, and efficient in operation.

To the attainment of these ends and the accomplishment of other new and useful objects, as will appear, the invention consists in the features of novelty in the construction, combination and arrangement of the several parts hereinafter more fully described and claimed, and shown in the accompanying drawings, illustrating an exemplification of the invention, and in which:—

Figure 1 is an elevation, partly in vertical section, of a machine constructed in accordance with the principles of this invention; Fig. 2 is a top plan view of the operating mechanism and case removed from the machine; Fig. 3 is a sectional view on line 3—3 of Fig. 2; Fig. 4 is a detail view on line 4—4 of Fig. 1; Fig. 5 is an elevation of the locking dog; Fig. 6 is a sectional view on line 6—6 of Fig. 5; Fig. 7 is a sectional view on line 7—7 of Fig. 2; Fig. 8 is a view similar to Fig. 7 showing the parts in a different position; Fig. 9 is a detail view of the operating disk or member, showing the check receptacles or pockets.

Referring to the drawings, and in this exemplification of the invention, the numeral 15 designates a hollow supporting base of any suitable configuration, having an opening in the front thereof, through which the operating mechanism hereinafter more fully described is inserted, and an opening 16, through which access may be had into the base. This opening 16 may be closed by a suitable closure 17, held in position by a suitable projection 18, and a lock 19. The bottom of the base is preferably depressed, as at 20, adjacent the opening 16, and into which the checks or coins are deposited. A suitable open receptacle 21 is provided at a convenient place into which the contents of a magazine 22 is discharged in pre-determined quantities, as will be described. The top of the supporting base is provided with a circumferential groove or depression 23, and the portion within the groove is depressed to form inclined converging walls 24, which terminate short of each other to form an outlet slot or opening 25.

The magazine 22 is constructed of any suitable material and is preferably open at the top and bottom. The lower edge is adapted to enter the groove or depression 23, and if desired a suitable gasket or packing 26 may be disposed within the groove, and upon which the magazine rests, in order to form a watertight joint. The magazine may be secured to the base in any desired manner, preferably by means of a ring 27 resting upon the top of the magazine, and tie rods or bolts 28, which are located within the magazine and have engagement with the ring 27 and the top of the supporting base. A suitable cover or closure 29 may be provided for the magazine, which cover, together with the fastening means, form the subject-matter of a separate application.

The supporting base is preferably constructed of two sections for convenience in casting, and are held together in any suitable manner, preferably by means of rods or bolts 30 which pass through the top and bottom of the base when the sections are assembled, and are secured preferably by means of nuts 31 on the free ends, below the bottom of the lower section. If desired, though, the base may be cast integrally and the rods or bolts 30 dispensed with.

A face plate or member 32 is preferably provided with an offset portion 33, and passing through this plate or member and journaled in a suitable bearing 34, is a shaft 35. Secured to the one end of the shaft is a suitable operating handle 36, and the other end of the shaft passes through the hub of an escapement wheel 37, which latter is secured to rotate with the shaft, in any suitable manner, such as by means of a transverse pin 38 passing through the shaft and hub. This

escapement wheel is located within the offset portion 33, and spaced from the front of the plate. If desired, a screw or bolt 39 may also be provided, as an additional means for securing the escapement wheel and shaft together.

The escapement wheel 37 is provided with peripheral notches or depressions 40, and a check seat or pocket 41 adjacent each of the notches or depressions 40. These seats or pockets 41 are somewhat larger than the notches or depressions, and are preferably so arranged as to be partially offset with relation to the coöperating notches or depression, and with one of the end walls of each coöperating part substantially flush. The check pockets or seats 41 are arranged on the front of the escapement wheel, adjacent the plate 32, and are open in front.

The offset portion 33 of the face plate 32 is provided with a centrally disposed boss or projection 42, which stands within the space between the plate and the escapement wheel, and forms a closure or front wall for the check seat or pocket 41 which is adjacent thereto.

The boss or projection 42 is provided with an inclined upper face 43, and a groove or depression 44, which latter is located in such a position to permit lateral projections 45 on the periphery of the escapement wheel 37 to pass therethrough when the wheel is rotated. Suitable lateral projections 46 are arranged on the front face of the escapement wheel 37 preferably at the base of the coin seats or pockets 41, which are adapted to pass under the boss or projection 42, when the seat or pocket is brought adjacent thereto, for a purpose to be set forth.

A locking dog 47 is pivotally secured by one end to the face plate or member 32, and is provided with a depending extremity or portion 48, which is adapted to enter the peripheral notches or recesses 40 of the escapement wheel, and said extremity is also provided with a side flange 49 adapted to stand adjacent the face of the escapement wheel 37, opposite the coin seats or pockets 41, when the depending portion 48 is seated within one of the notches 40. A suitable spring 50 is provided, one end of which is secured to the plate or member 32, and the other end to the dog or part 47, and normally tends to hold the portion 48 seated within the notches 40. A lateral projection 51 is also provided on the dog or pawl 47, preferably adjacent the free end thereof, which projects over the check seats or pockets 41 and in such a position as to be spaced above the periphery of the escapement wheel 37 when the depending portion 48 is seated in one of the notches 40. This projection 51 is preferably provided with an inclined or curved lower face 52, for a purpose to be set forth. Extending from the other face of the escapement wheel 37, and preferably somewhat remote from the periphery thereof, and concentric with the shaft 35, are a series of lateral projections 53 which are spaced from each other to form openings 54. One end of each of these projections 53 is enlarged, as at 55, which enlargement is preferably provided with a curved surface. The projections are each, also, provided with a notch 56 in their upper face adjacent the enlargement 55.

A retaining pawl 57 is pivoted by one end to the face plate or member 32 and is preferably provided with a pointed free extremity 58. This pawl is of such a length that the extremity 58 will enter the spaces 54, between the lateral projections 53, when the spaces are opposite said extremity, and to ride upon the lateral projections 53 when the escapement wheel is unlocked and rotated in the proper direction. A suitable spring 59 is provided for holding the pawl 57 in proper position, and a stop 60 may be also provided to prevent displacement of the pawl.

The end of the shaft 35 projects beyond the escapement wheel 37, and is adapted to be seated in a socket 61, in one end of a delivery drum, and said drum is removably secured to the shaft 35 for rotation therewith in any suitable manner, preferably by means of a pin 62 passing through the wall of the socket and the shaft. This drum is preferably frusto-conical in shape, and is provided with a plurality of compartments or pockets 63.

A suitable casing 65 surrounds the drum, which is provided with arms or extensions 66, adapted to rest against the inner face of the plate or member 32, and said casing is removably secured in position, preferably by means of screws or bolts 67, passing through the arms or extensions 66 into the plate or member. The free end of the drum is provided with a lug or stub shaft 68, which is journaled in a suitable bearing in the end wall of the casing 65, and serves as a means for supporting the drum. The casing 65 closely surrounds the periphery of the drum, and is provided with slots or apertures 70—71 in the top and bottom thereof, each of which is of a width substantially equal to the width of the compartments or pockets 63.

The casing 65 is provided with depending and substantially parallel flanges or walls 72 adjacent the edges of the bottom slot or aperture 71 which extend for some distance below the casing to form a discharge chute or trough having an inclined bottom 73 which latter extends beyond the front edge of the flanges or walls 72.

The face plate or member 32 is provided with a depending portion 74 terminating in an enlargement 75, and said depending

portion and enlargement are adapted to stand over and form a cover for the discharge chute of the drum casing. When the casing 65 is secured to the plate or member 32, the front or enlarged end of the drum coöperates with a suitable projection 76 on the plate or member 32, to form a closure for the offset portion 33, to prevent the insertion of a tool or instrument into the offset portion 33 through the discharge chute, for tripping the locking mechanism.

The face plate or member 32, casing 65, and the assembled operating mechanism, may be secured to the machine by passing the casing 65 into the hollow base 15, through the opening in the side thereof, and in such a position that the slot or aperture 70 in the casing 65 will stand directly under the opening 2- in the top of the base, and with the outlet opening of the discharge chute directly over the receptacle 21. In this position the face plate or member 32 will form a closure for the opening in the base.

A screw 77 is suitably mounted in the end wall 69 of the casing 65, and is adapted to enter a bifurcation 78 in a lug or projection 79, which depends from the top of the base. In this position the screw may be adjusted through the opening 16 in the base, to cause a shoulder or projection 80 thereon to bind or clamp the projection 79 between said shoulder 80, and the wall 69 of the casing and firmly hold the parts against removal.

The inclined face 43 of the lug or projection 42 coöperates with a suitable portion 81 of the base to form a coin or check chute. A suitable check delivery mechanism 82 may be provided for delivering the check into the chute, but the construction of said mechanism forms no part of the present application.

Assuming the parts to be in the position shown in Fig. 2, and the escapement wheel 37 locked, as shown in Fig. 7, the operation is as follows:—A suitable check 83 may be delivered into the check chute by the delivery mechanism 82, from where it passes into the pocket or receptacle 41 adjacent the chute, as shown in Fig. 7. The escapement wheel 37 may be then rotated by means of the handle 36. As the wheel is rotated, the edge of the check 83 will engage the inclined or curved face 52 of the projection 51 on the locking dog 47, and further rotation will cause the dog to be raised against the tension of the spring 55, by the check 83, a sufficient distance to raise the depending flange or portion 49 out of the notch 40. The check will hold the dog elevated until it passes under the projection 51. The pocket or receptacle 41, by this time having passed to a position out of proximity to the lug or projection 42, the check will drop out of the open side of the pocket and strike a suitable inclined portion 84 on the plate or member 32, and be deflected into the depressed portion 20, in the base. After the check has dropped out of the pocket, the spring 50 will cause the depending portion 49 of the dog to engage and rest upon the periphery of the escapement wheel 37, between the notches 40. As the wheel 37 is rotated forwardly, the enlargement 55 of the adjacent lateral projection 53 will pass under the point 58 of the retaining dog 57. If the escapement wheel is rotated a sufficient distance to discharge the check from the pocket 41, the enlargement 55 will pass under the point of the dog 57 and cause the latter to rest upon the projection 53. The parts may be then rotated until one of the pockets or compartments 63 of the drum has assumed a position to discharge its contents through the delivery chute, and into the receptacle 21. At this time the next notch 40 will be in a position to permit the depending portion 49 of the dog to drop therein, and the next space 54 between the lateral projections 53 will be in a position to receive the point of the retaining dog 57. Should it be attempted to impart a retrograde movement just after the check has been discharged and after the point of the dog 57 has passed over the enlargement, the point 58 of the dog will enter the notch or recess 56, and lock the escapement wheel against such movement. If such a motion is imparted to the escapement wheel after it has been rotated to some extent and before the next notch 40 is in a position to receive the depending portion 49 of the dog 47, then the point 58 of the retaining dog 57 will bind on the surface of the lateral projection 53 and prevent such movement. After the check pocket 41 has passed away from the lug or projection 43, the laterally projecting portion or flange 45 will enter the groove or recess 44 in said projection to prevent the insertion of an instrument for fraudulently operating the mechanism. The projections 46 arranged adjacent the base of the check pockets 41, and which extend under the projection 43, serve to prevent the check from dropping between the escapement wheel 37, and the plate or member 32. The pockets 63 in the delivery drums are supplied from the magazine 22 through the opening 25, as they are advanced into position. It will thus be seen that the operating mechanism is arranged compactly and thoroughly protected, and may be quickly and bodily removed from the machine, being secured in the frame only by a single fastening means. In order to remove the operating mechanism the closure 17 is first removed, the screw 77 loosened, and the entire mechanism removed from the base.

In order that the invention might be fully

understood, the details of an embodiment thereof have been thus specifically described, but

What I claim is:—

1. In a vending machine, the combination of operating mechanism, comprising a support, check controlled and delivery mechanism mounted on the support, a casing, a magazine supported by said casing, said operating mechanism being adapted to be inserted in the casing with the delivery mechanism communicating with the magazine, a projection on the casing adjacent the support, and adjustable means removably engaging the projection and the support for securing the operating mechanism in position.

2. In a vending machine, the combination of operating mechanism, comprising a support, check controlled and delivery mechanism mounted on the support, a casing, a magazine supported by said casing, said operating mechanism being adapted to be inserted in the casing with the delivery mechanism communicating with the magazine, a projection on the casing having a bifurcation, and adjustable means on the support adapted to enter the bifurcation for securing the operating mechanism in position.

3. In a vending machine, the combination of operating mechanism, comprising a support, check controlled and delivery mechanism mounted on the support, a casing, a magazine supported by said casing, said operating mechanism being adapted to be inserted in the casing with the delivery mechanism communicating with the magazine, a projection on the casing having a bifurcation, a screw and a shoulder on the screw, said screw having engagement with the support and being adapted to enter the bifurcation in such a manner that the projection will be clamped between the support and the shoulder for securing the operating mechanism in position.

4. In a vending machine, the combination of a magazine, a hollow supporting base for the magazine provided with an aperture in the wall thereof and having a delivery receptacle, operating mechanism within the base comprising a housing having an inlet opening communicating with the magazine and a discharge outlet communicating with the receptacle, delivery mechanism within the housing, and having communication with the openings therein and adapted to receive the contents of the magazine and deliver it through the casing, check controlled mechanism also within the housing and operatively related to the delivery mechanism, and a single means for removably securing the housing in position.

5. In a vending machine, the combination of a magazine, a hollow supporting base for the magazine provided with an aperture in the wall thereof and having a delivery receptable, operating mechanism within the base, comprising a housing having an inlet opening communicating with the magazine and a discharge outlet communicating with the receptacle, delivery mechanism within the casing and having communication with the openings therein and adapted to receive the contents of the magazine, check controlled mechanism also within the housing and operatively related to the delivery mechanism, and a single means for removably securing the housing in position, said housing constituting a face plate engaging the outer face of the wall of the base and serving to close the aperture therein.

6. In a vending machine, the combination of a magazine, a hollow supporting base for the magazine having a plurality of apertures in the wall thereof, and provided with a delivery receptacle adjacent one of the apertures, a face plate, a housing supported by the plate and having an inlet opening communicating with the magazine and a discharge outlet communicating with the receptacle, delivery mechanism within the housing having communication with the openings therein and adapted to receive the contents of the magazine, check controlled mechanism also within the housing plate and operatively related to the delivery mechanism, a single means within the base for removably securing the housing in position and the face plate against the outside of the casing, and a closure for the other aperture in the base.

7. In a vending machine, the combination of a magazine, a hollow supporting base for the magazine provided with an aperture in the wall thereof, a housing extending into the base through the aperture and having an inlet opening com nunicating with the magazine and a discharge outlet, a delivery receptacle rotatively mounted in the housing and adapted to receive the contents of the magazine, check controlled mechanism also within the housing, means for connecting the check controlled mechanism with the receptacle, means for rotating said receptacle, and means for removably securing the housing within the base, whereby the housing may be readily removed without dismembering the casing.

8. In a vending machine, the combination of a magazine, a hollow supporting base for the magazine provided with an aperture in the wall thereof, a housing extending into the base through the aperture and having an inlet opening communicating with the magazine, and a discharge outlet, a rotatable delivery drum within the housing, one end of said drum being journaled in one of the walls of the housing, the other end of the drum being provided with a socket, a shaft passing through the opposite wall of the casing, the end of said shaft being seated in the socket, means for securing the drum and

shaft together, check-controlled mechanism operatively related to the shaft, and means for rotating the shaft.

9. In a vending machine, the combination of a magazine, a hollow supporting base for the magazine provided with an aperture in the wall thereof, a housing extending into the base through the aperture, and having an inlet opening communicating with the magazine and a discharge outlet, a rotatable delivery drum within the housing, one end of said drum being journaled in one of the walls of the housing, the other end of the drum being provided with a socket, a shaft passing through the opposite wall of the housing, the end of said shaft being seated in the socket, means for securing the drum and shaft together, check controlled mechanism operatively related to the shaft and located between the end of the drum and the wall of the housing, said wall serving as a closure for the aperture, and means for rotating the shaft.

10. In a vending machine, the combination of a magazine, a hollow supporting base for the magazine provided with an aperture in the wall thereof, a housing extending into the base through the aperture, and having an inlet opening communicating with the magazine and a discharge outlet, a rotatable delivery drum within the housing, one end of said drum being journaled in one of the walls of the housing, the other end of the drum being provided with a socket, a shaft passing through the opposite wall of the housing, the end of said shaft being seated in the socket, means for securing the drum and shaft together, check controlled mechanism operatively related to the shaft and located between the end of the drum and the wall of the housing, said wall serving as a closure for the aperture, means for rotating the shaft, and a single means for removably securing said housing in position.

11. In a vending machine, the combination of a hollow base, a magazine supported thereby, said base being provided with an aperture in the wall thereof, a housing extending into the base through the aperture and having an inlet opening communicating with the magazine and a discharge opening, a rotary delivery drum, one end of which is journaled to the wall of the housing, the other end thereof terminating short of the opposite wall and being provided with a socket in said end, a shaft passing through said wall and being seated in the socket, means for securing the shaft within the socket, check controlled mechanism comprising an escapement wheel secured to the shaft between the end of the drum and the wall of the housing, and a locking and retaining pawl coöperating with the escapement wheel, and means for operating said mechanism.

12. In a vending machine, the combination of a hollow base, a magazine supported thereby, said base being provided with an aperture in the wall thereof, a housing extending into the base through the aperture and having an inlet opening communicating with the magazine and a discharge opening, a rotary delivery drum, one end of which is journaled to the wall of the housing, the other end thereof terminating short of the opposite wall and being provided with a socket in said end, a shaft passing through said wall and being seated in the socket, means for securing the shaft within the socket, check controlled mechanism comprising an escapement wheel secured to the shaft between the end of the drum and the wall of the housing, and a locking and retaining pawl coöperating with the escapement wheel, means for operating said mechanism, the last said wall serving as a closure for the aperture in the base, and a single fastening means for securing the housing in position.

13. In a vending machine, the combination of a hollow base, a magazine supported thereby, said base being provided with an aperture in the wall thereof, a housing extending into the base, one of the walls thereof comprising a face plate adapted to rest against the outer face of the base for closing the aperture, a single means within the base for removably securing the housing and face plate in position, said housing having an inlet communicating with the magazine and a discharge outlet, a delivery receptacle housed within the housing adapted to receive the contents of the magazine, check controlled mechanism also within the housing and operatively related to the delivery mechanism, and means for operating said mechanisms, said mechanisms being bodily removable from the base with the housing and face plate.

14. In a vending machine, the combination of a hollow base, a magazine supported thereby, said base being provided with an aperture in the wall thereof, a separable housing extending into the base, one of the walls thereof resting against the inner face of the base and forming a closure for the aperture, a single means within the base for removably securing the housing in position, said housing having an inlet communicating with the magazine and a discharge outlet, a delivery receptacle within the housing and communicating with the magazine, mechanism for moving the receptacle, check controlled mechanism also within the housing and detachably connected to the delivery mechanism, and means for operating said mechanisms, said mechanisms being bodily removable from the base with the housing.

15. A check controlled mechanism for vending machines and the like, comprising

an escapement wheel provided with check receptacles, one side of each of which is open, stationary means coöperating with the receptacles and forming a closure for said side as the receptacles stand adjacent the last said means for temporarily retaining the check therein, locking mechanism for said escapement adapted to be released by the check, means for rotating said wheel to release the escapement to permit a further rotation thereof, and means for preventing a retrograde movement of the escapement.

16. A check controlled mechanism for vending machines and the like, comprising an escapement wheel provided with a plurality of check receptacles, one side of each of which is open, stationary means adapted to successively coöperate with the receptacles to form a temporary closure for the sides as the escapement is rotated, means for permitting a limited movement of the escapement to cause the check to release the escapement to permit further rotation of the escapement, and means for preventing a retrograde movement of said escapement.

17. A check controlled mechanism for vending machines and the like, comprising an escapement wheel provided with a check receptacle, means for permitting a limited initial movement of the escapement, said escapement being adapted to be released by a check at the limit of its initial movement to permit a further movement thereof, means whereby the check will be immediately discharged when the escapement is released and means for preventing a retrograde movement of the escapement after its initial movement.

18. A check controlled mechanism for vending machines and the like, comprising an escapement wheel provided with a check receptacle, means for permitting a limited initial movement of the escapement, said means comprising a pawl and an extended notch in the escapement, into which the pawl is seated, said pawl being adapted to be unseated by a check at the limit of the initial movement of the escapment to permit a further movement of said escapement, means whereby the check will be immediately discharged when the escapment is released and means for preventing a retrograde movement after the said initial movement.

19. A check controlled mechanism for vending machines and the like, comprising an escapement wheel provided with a check receptacle having an open side, means independent of the escapement adapted to cooperate with the receptacle to temporarily hold a check therein, said escapement being provided with an extended notch, a pawl, means for yieldingly holding said pawl seated in the notch, means for initially moving said escapement to cause the check to engage the pawl and release the escapement to permit further movement thereof, and to cause the check to be discharged from the receptacle, and means for preventing retrograde movement of the escapement after its initial movement.

20. A check controlled mechanism for vending machines and the like, comprising an escapement wheel having check receptacles, one side of each of which is open, stationary means common to all of said receptacles adapted to successively coöperate with the receptacles to form a closure for the open side as the escapement is rotated, means on the escapement located between the receptacles and adapted to form a closure for the space between the escapement and the first said means when the receptacles are out of operative relation with said means, means for permitting a limited initial movement of the escapement, said escapement being adapted to be released by a check to permit a further rotation thereof, and means for preventing a retrograde movement of the said escapement.

21. A check controlled mechanism for vending machines and the like, comprising an escapement wheel having check receptacles, one side of each of which is open, stationary means common to all of said receptacles and adapted to successively coöperate with the receptacles to form a closure for the open side as the escapement is rotated, lateral projecting flanges on the escapement located between the receptacles and adapted to form a closure for the space between the escapement and the first said means when the receptacles are out of operative relation with said means, means for permitting a limited initial movement of the escapement, said escapement being adapted to be released by a check to permit a further rotation thereof, and means for preventing a retrograde movement of the said escapement.

22. A check controlled mechanism for vending machines and the like, comprising a support, an escapement rotatively mounted therein, said escapement being provided with check receptacles having an open side, a projection on the support, adapted to successively coöperate with the receptacles to form a closure for the sides as the receptacles are advanced to the projection, said projection being provided with a recess, lateral projecting flanges on the escapement between the receptacles adapted to enter the recess to form a closure for the space between the escapement and the projection when the receptacles are out of operative position with relation thereto, means for locking said escapement, said means being adapted to be engaged by a check to release

the escapement and permit the latter to be rotated, and means for preventing a retrograde movement of the escapement.

23. A check controlled mechanism for vending machines and the like, comprising an escapement provided with peripheral notches, a pawl adapted to engage the notches for locking the escapement, means for releasing the pawl, means for rotating the escapement, spaced lateral projections extending from the face of the escapement, and a retaining pawl, said pawl being adapted to be seated in the spaces between the projections for locking the escapement, and to frictionally engage the face of said projections to prevent a retrograde movement of said escapement.

24. A check controlled mechanism for vending machines and the like, comprising an escapement provided with peripheral notches, a locking dog adapted to engage said notches, means for releasing said dog to permit rotation of the escapement, means for rotating the escapement, spaced projections extending laterally from the face of the escapement and located remote from the periphery thereof, said projection having extended faces concentric with the axis of the escapement, and a retaining dog adapted to be seated in the spaces when the escapement is locked and to frictionally engage the face of one of the projections to prevent retrograde movement of the escapement when the latter is unlocked.

25. A check controlled mechanism for vending machines and the like, comprising a rotary escapement having check receptacles and peripheral notches, a dog adapted to engage the notches for locking the escapement, said dog being adapted to be engaged by the check for releasing the escapement, spaced lateral projections on the escapement, said projections being provided with an extended face and having a notch therein, and a retaining dog adapted to be seated in the space between the projections when the escapement is locked, said dog being also adapted to frictionally engage the face of the projection to prevent retrograde movement of the escapement and to enter the notch in said face to prevent retrograde movement before the face of the projection is in operative position with relation to the pawl.

26. In a device of the class described, the combination of a base provided with an opening in the wall thereof, a housing adapted to be inserted into the base through the opening with a portion thereof outside of the base to form a closure for the opening, a stop within the base for limiting the inward movement of the housing, adjustable means for straining said housing towards the stop and check controlled mechanism within the casing.

27. In a vending machine, the combination of a magazine having an opening in the bottom thereof, a hollow supporting base therefor having an open side, a housing comprising as connected elements a chute and a closure, removably inserted in the base through said open side with the closure closing said open side and the chute arranged under said opening, a rotary delivery member, means for controlling said member, said member and controlling means being supported and carried by said housing and removable therewith as a whole, and means common to the housing and said closure inclosed by the base for securing said housing against removal.

28. In a vending machine, the combination of a magazine having an opening in the bottom thereof, a hollow supporting base therefor having an aperture in its wall, a rotary delivery member arranged under said opening, means for controlling said member, a housing containing and supporting said member and controlling means as a whole inserted in the base and comprising, as a connected element, a closure serving to close said aperture in the wall of the base and means inclosed within the base for securing said housing against removal.

29. In a vending machine, the combination of a magazine having an opening in the bottom thereof, a hollow supporting base therefor having an aperture in its wall, a rotary delivery member arranged under said opening, means for controlling said member, a housing containing and supporting said member and controlling means as a whole inserted in the base and comprising, as an integral element, a closure serving to close said aperture in the wall of the base, and means inclosed within the base for securing said housing against removal.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 18th day of January A. D. 1907.

CLARENCE C. TRAVIS.

Witnesses:
J. H. JOCHUM, Jr.,
M. W. CANTWELL.