

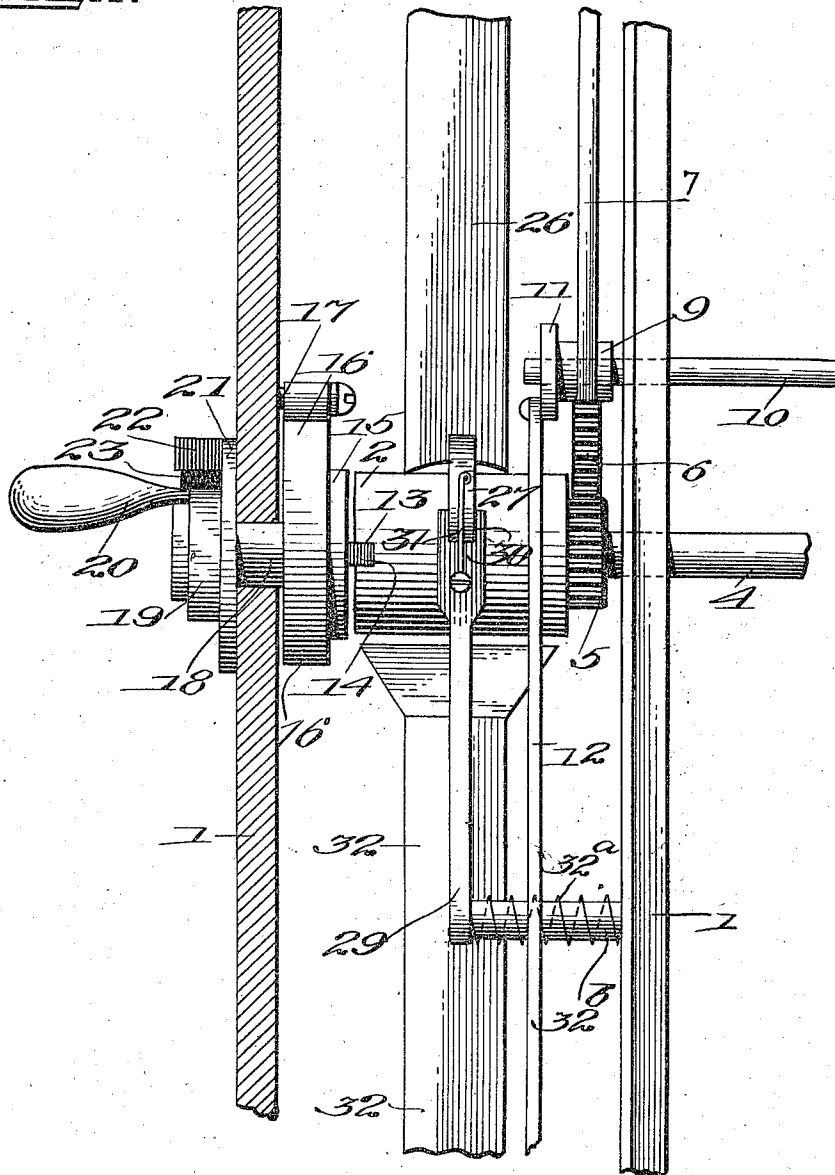
B. LOVATT.
 COIN CONTROLLED MECHANISM FOR VENDING MACHINES.
 APPLICATION FILED JUNE 23, 1909.

952.537.

Patented Mar. 22, 1910.

2 SHEETS—SHEET 1.

Fig. 1.



WITNESSES

C. S. Ashley
Solicitor General

INVENTOR

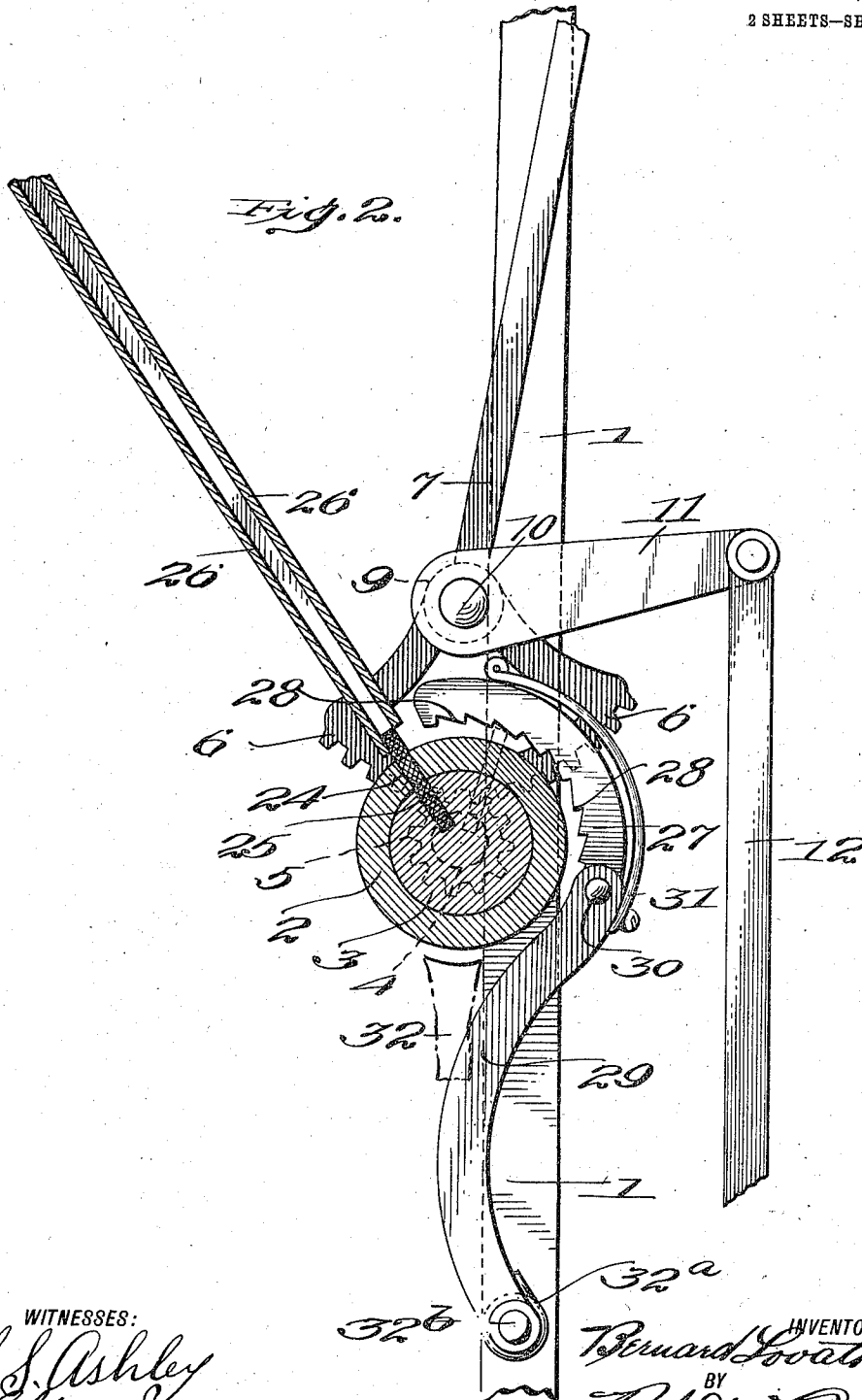
Bernard Lovatt
 BY *Robert W. Ashley*
 his ATTORNEY

B. LOVATT.
 COIN CONTROLLED MECHANISM FOR VENDING MACHINES.
 APPLICATION FILED JUNE 23, 1909.

952,537.

Patented Mar. 22, 1910.

2 SHEETS—SHEET 2.



WITNESSES:
C. S. Ashley
E. McDonald

INVENTOR
Bernard Lovatt
 BY
Robert W. Ashley
 ATTORNEYS

UNITED STATES PATENT OFFICE.

BERNARD LOVATT, OF NEW YORK, N. Y., ASSIGNOR TO AMERICAN SANITARY SUPPLY COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

COIN-CONTROLLED MECHANISM FOR VENDING-MACHINES.

952,537.

Specification of Letters Patent. Patented Mar. 22, 1910.

Application filed June 23, 1909. Serial No. 503,845.

To all whom it may concern:

Be it known that I, BERNARD LOVATT, a citizen of the United States, residing at New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Coin-Controlled Mechanism for Vending-Machines, of which the following is a specification.

The invention relates to improvements in coin controlled mechanism for vending machines and like apparatus.

In the following is described in connection with the accompanying drawings one embodiment of the invention the features thereof being more particularly pointed out hereinafter in the claims.

In the drawings,—Figure 1 is a rear elevation of the apparatus in its normal position illustrating in connection therewith the manner in which the operative parts are connected thereto for actuating a carton feeding and discharging means; and Fig. 2 is a side elevation of parts being shown in vertical section view of the coin controlled actuating means illustrating particularly the manner in which a coin controls the operative parts thereof for actuating a carton feeding and discharging means.

Similar numerals of reference indicate similar parts throughout the several views.

In the drawings 1 indicates a supporting frame comprising a wall of a casing and an auxiliary structure of vertically disposed angle irons forming part of a carton magazine.

2 indicates a sleeve mounted on a core 3 which is in turn mounted on shaft 4 which finds bearing in said auxiliary structure 1. Said shaft 4 has mounted thereon gear 5 meshing with segment 6 formed on the lower end of arm 7, provided with a boss 9 and mounted on auxiliary shaft 10. Said boss 9 or shaft 10 has mounted thereon an arm 11 having fastened thereto at its outer end a depending lever 12 which communicates with suitable actuating mechanism for operating a carton feeding carriage associated with said carton magazine. Said arm 7 communicates at its upper end with a mechanism adapted to actuate a carriage for discharging the uppermost carton in said carton magazine into a discharge chute.

Sleeve 2 has cut therein a slot 13 adapted to receive key 14 mounted on drum 15, controlled by means of band spring 16 one end

of said spring being fastened to said drum 16, the other end thereof being mounted on retaining pin 17 mounted in the wall of said casing 1. Drum 15 has formed therewith a shaft 18 carrying head 19 which in turn has mounted thereon hand lever 20 for manually actuating the parts associated with the coin barrel. Shaft 8 finds bearing in the wall of casing 1 and stationary plate 21 carrying lug 22 having mounted on its under surface a rubber pad 23 adapted to receive the upper part of head 19 on the recoil or rebound of the manually actuating means thus preventing any possible jar or lost motion in the actuating parts of the apparatus.

The coin barrel which comprises a sleeve 2 and a core 3 have cut therein, diametrically opposite slots 24, and 25 in diagonal alignment with coin chute 26, slots 25 being cut in said core 3 to a predetermined depth to allow the coin when inserted therein to project beyond the outer periphery of said sleeve 2.

27 indicates a circular rack provided with notches 28 and is pivotally mounted in supporting arm 29 at 30 said arm 29 being mounted in auxiliary structure 1.

31 indicates a spring rigidly mounted at one end thereof on said arm 29, its other end thereof being free and bearing against said rack 27 providing at this point a means for rendering it impossible to partly actuate the device and obtain a carton, as the coin barrel must turn the full half revolution and the coin discharge therefrom into receiving chute 32 before the discharge carriage actuated through the medium of arm 8 will travel a sufficient distance to convey the carton to the discharge chute. Supporting arm 29 is controlled by means of spring 32^a on stud 32^b mounted on said auxiliary structure 1.

The operation of the apparatus is as follows: A coin of a predetermined denominational value is passed from coin chute 26 into coin barrel, said coin projecting beyond the outer periphery of said barrel and the position thereof controlled by means of rack 27. The manual operating means is then actuated causing arm 8 to bring the discharge carriage forward and cause the uppermost carton in the magazine to be discharged into a suitable discharge chute. The movement of said arm 8 also causes arm 11 to actuate depending rod 12 in a down-

ward direction which connects with suitable mechanism for feeding a carriage upwardly in the carton magazine.

The structure as herein shown and described may be varied in many ways without departing from the spirit of the invention.

What I claim and desire to secure by Letters Patent of the United States is:

- 10 1. A device of the character described comprising a coin controlled actuating means including a main shaft, a core mounted on said shaft having formed therein a groove, a sleeve mounted on said core provided with a slot diametrically opposite to said groove in said core, a coin chute adjacent to said diametrically opposite groove and slot, an arm adjacent to said sleeve, a circular rack mounted in said arm and adapted to engage a coin in said slot and groove during the rotation of said core and sleeve, and means mounted on said shaft and core adapted to engage means for actuating a carton feeding and discharging means.
- 25 2. A device of the class described comprising a coin controlled actuating means including a main shaft, a core mounted on said shaft, a sleeve mounted on said core, a diametrically opposite slot and groove cut in said core and sleeve adapted to receive a coin, a coin chute adjacent to said diametrically opposite slots adapted to convey said coin into said slots, an arm associated with said sleeve, a circular rack mounted in said

arm provided with means adapted to engage said coin in the rotation of said core and sleeve, means for manually actuating said core and sleeve, and means for returning said core and sleeve to their normal positions after the discharge of the coin therefrom.

3. A device of the character described including a coin controlled actuating means comprising a main shaft, a core mounted on said shaft, a sleeve mounted on said core, a diametrically opposite slot and groove formed in said core and sleeve adapted to receive a coin, a coin chute in alignment with said diametrically opposite slots adapted to convey said coin into said slots, an arm associated with said sleeve, a circular rack mounted in said arm provided with means adapted to engage said coin in the rotation of said core and sleeve, means for holding said rack in contact with said coin in the rotation of said core and sleeve, means for manually actuating said core and sleeve, and means for returning said core and sleeve to their normal positions after the discharge of the coin therefrom.

In testimony whereof I have hereunto signed my name in the presence of two subscribing witnesses:

BERNARD LOVATT.

Witnesses:

FRANK E. RAFFMAN,
SADIE SEMLEAR.