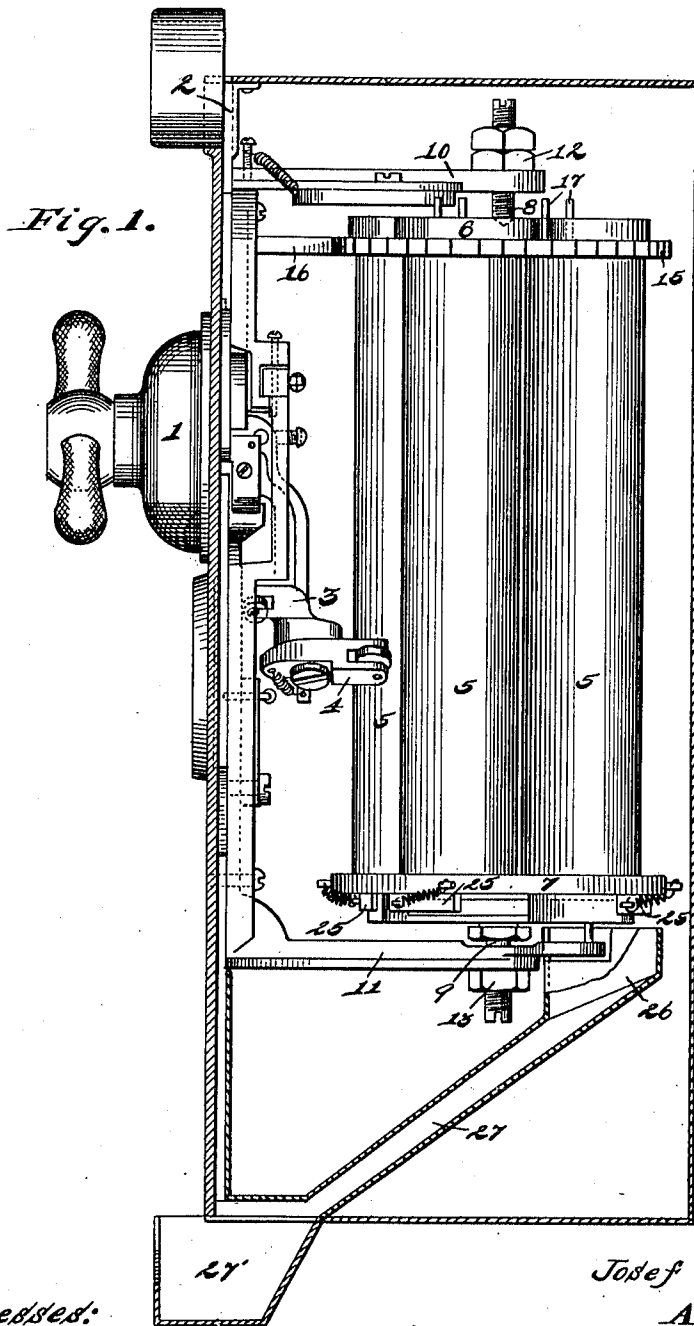


984,433.

J. KRIZ & F. SCHORIK.
VENDING MACHINE.
APPLICATION FILED AUG. 6, 1910.

Patented Feb. 14, 1911.

2 SHEETS—SHEET 1.



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UNITED STATES PATENT OFFICE.

JOSEF KRIZ AND FRANK SCHORIK, OF CHICAGO, ILLINOIS, ASSIGNORS, BY DIRECT AND MESNE ASSIGNMENTS, OF ONE-HALF TO SAID FRANK SCHORIK AND ONE-HALF TO JOSEPH BAUMRUK, JR., BOTH OF CHICAGO, ILLINOIS.

VENDING-MACHINE.

984,433.

Specification of Letters Patent.

Patented Feb. 14, 1911.

Original application filed February 7, 1910, Serial No. 542,584. Divided and this application filed August 6, 1910. Serial No. 575,993.

To all whom it may concern:

Be it known that we, JOSEF KRIZ and FRANK SCHORIK, citizens of the United States, residing at Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Vending-Machines, of which the following is a specification.

Our invention relates to improvements in vending machines and has for its object the production of an improved machine especially adapted to the sale of slugs for operating slug controlled telephones or similar mechanisms, the present application being a division of our original application, Serial No. 542,584, filed February 7th, 1910, for vending machines.

The invention consists in the combination and arrangement of parts hereinafter described and claimed.

The invention will be more readily understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is a sectional elevation of vending mechanism embodying our invention, Fig. 2 is a horizontal section through the casing inclosing the said mechanism in top plan view, Fig. 3 is an elevation of a member adapted to contain the slugs to be sold, Fig. 4 is a top plan view of said member, Fig. 5 is a bottom plan view of said member, and Fig. 6 is a partial section through the bottom of the slug containing member illustrating the method of discharge of the slugs.

The preferred form of construction as illustrated in the drawings comprises coin controlled mechanism 1 to which coins may be supplied through a chute 2 and by means of which a downwardly extending arm 3 carrying a spring held trigger arm 4 may be oscillated through a certain angle. This coin controlled mechanism forms the subject matter of our original application, Serial No. 542,584, mentioned above, and needs no further description here. Trigger arm 4 is arranged to contact with and engage tubes 5 carried by upper and lower plates 6 and 7. Plates 6 and 7 are rotatably mounted on pointed screws 8 and 9 threaded in brackets 10 and 11 and held in position by lock nuts 12 and 13. Plate 6 is provided with open-

ings 14 communicating with tubes 5, the said tubes being arranged with their centers on a circle having the axis of rotation of plates 6 and 7 for its center. The periphery of plate 6 is provided with ratchet teeth adapted to be engaged by a spring pawl 16 which holds said pawl and tubes against reverse rotations. Between the openings 14 plate 6 is provided with upwardly projecting pins 17 adapted to be engaged by an angularly shaped locking dog 18 pivoted to bracket 19 and yieldingly held in contact with said pins by means of a spring 18'. The arrangement is such that at each oscillation of arm 3 trigger 4 engages the side of a tube 5 and causes a partial rotation of the tubes and their connections. The operative stroke of arm 3 is sufficient to carry the rear pin 17 contacting with dog 18 over the apex 20 of said dog whereupon the inclination of the forward face of said dog operating upon said pin will complete the partial rotations of said plates and tubes until the adjacent rear pin contacts with the rear inclined surface of said dog. The dog then serves to hold the tubes and plates in correct position. Thus it will be observed that upon the deposit of a nickel in the coin controlled mechanism the tubes 5 may be caused to take a partial revolution, the trigger 4 snapping over the next adjacent rear tube 5 on the reverse movement of arm 3 to assume a position ready to engage said tube upon the next operation of said arm.

Plate 7 is provided with wells or pockets 21 into which the tubes 5 fit at their bottoms. Each of these wells is partially cut away at the bottom and provided with a lateral discharge slot 22 in the side thereof. A circular slot 23, with the axis of rotation as its center, is cut through the bottom of each of said wells. A pin 24 is secured in bracket 11 to extend upwardly through slot 23 into the bottom of wells 21, as shown in Fig. 6. Spring held pawls 25 are pivoted to the bottom of plate 7 in position to contact with and yieldingly hold the bottommost of the pile of slugs 24' in each of said tubes against accidental displacement from said tube. The pin 24 is extended upwardly into wells 21 just far enough to engage the bottommost of a pile of slugs in the corresponding tube and well. Thus it will be

observed that at each partial rotation of said tubes the bottommost slug in one tube will be engaged by pin 24 and held against rotation until the bottom of the corresponding well passes from under said slug whereupon said slug will fall into a receptacle 26 set to receive it. Receptacle 26 is connected by means of a chute 27 with a delivery receptacle 27' so that said discharge slug will be conducted to said delivery receptacle whence it may be extracted by the depositor of the nickel. The slugs last mentioned may be of any of the usual forms of slugs adapted to be deposited in any ordinary telephone in payment for the use thereof, the machine being especially devised for the purpose of relieving the proprietor of establishments containing the telephones from the trouble of exchanging said slugs for money and the user of the telephone from the annoyance and delay incident thereto. In order to facilitate the manipulation of tubes 5 and provide a means for operation thereof by a different form of coin controlled mechanism, radiating pins 28 are secured to plate 6, as shown.

While we have illustrated and described the preferred form of construction for carrying our invention into effect this is capable of variation or modification without departing from the spirit of the invention. We, therefore, do not wish to be limited to the exact details of construction set forth but desire to avail ourselves of such variations and modifications as come within the scope of the appended claims.

Having described our invention what we claim as new and desire to secure by Letters Patent is:

1. In a vending machine, the combination of a member mounted to rotate on a vertical axis; one or more vertical receptacles adapted to retain piles of slugs and arranged on a circle having the axis of rotation of said member as a center, each of said receptacles being provided with a lateral slot at the bottom for the discharge of a single slug and a circular slot in the bottom for the passage of a pin; a stationary pin projecting through said circular slot and into said receptacles to engage the bot-

tom slug therein; a spring held pawl adapted to retain the bottom slug in each of said receptacles; and mechanism for rotating said member, substantially as described. 55

2. In a vending machine; the combination of a member mounted to rotate on a vertical axis; one or more vertical receptacles adapted to retain piles of slugs and arranged on a circle having the axis of rotation of said member as a center, each of said receptacles being provided with a lateral slot at the bottom for the discharge of a single slug and a circular slot in the bottom for the passage of a pin; a stationary pin projecting through said circular slot and into said receptacles to engage the bottom slug therein; a series of pins projecting vertically from said member; a spring held angular dog cooperating with said pins to force said member to position; and means for imparting a partial rotation to said member, substantially as described. 60 65 70

3. In a vending machine, the combination of a member mounted on a vertical axis; one or more vertical receptacles adapted to retain piles of slugs and arranged on a circle having the axis of rotation of said member as a center, each of said receptacles being provided with a lateral slot at the bottom for the discharge of a single slug and a circular slot in the bottom for the passage of a pin; a stationary pin projecting through said circular slot and into said receptacles to engage the bottom slug therein; a spring held pawl adapted to retain the bottom slug in each of said receptacles; a series of pins projecting vertically from said member; a spring held angular dog cooperating with said pins to force said member to position; and means for imparting partial rotations to said member, substantially as described. 75 80 85 90

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses. 95

JOSEF KRIZ.
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Witnesses:

HELEN F. LILLIS,
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