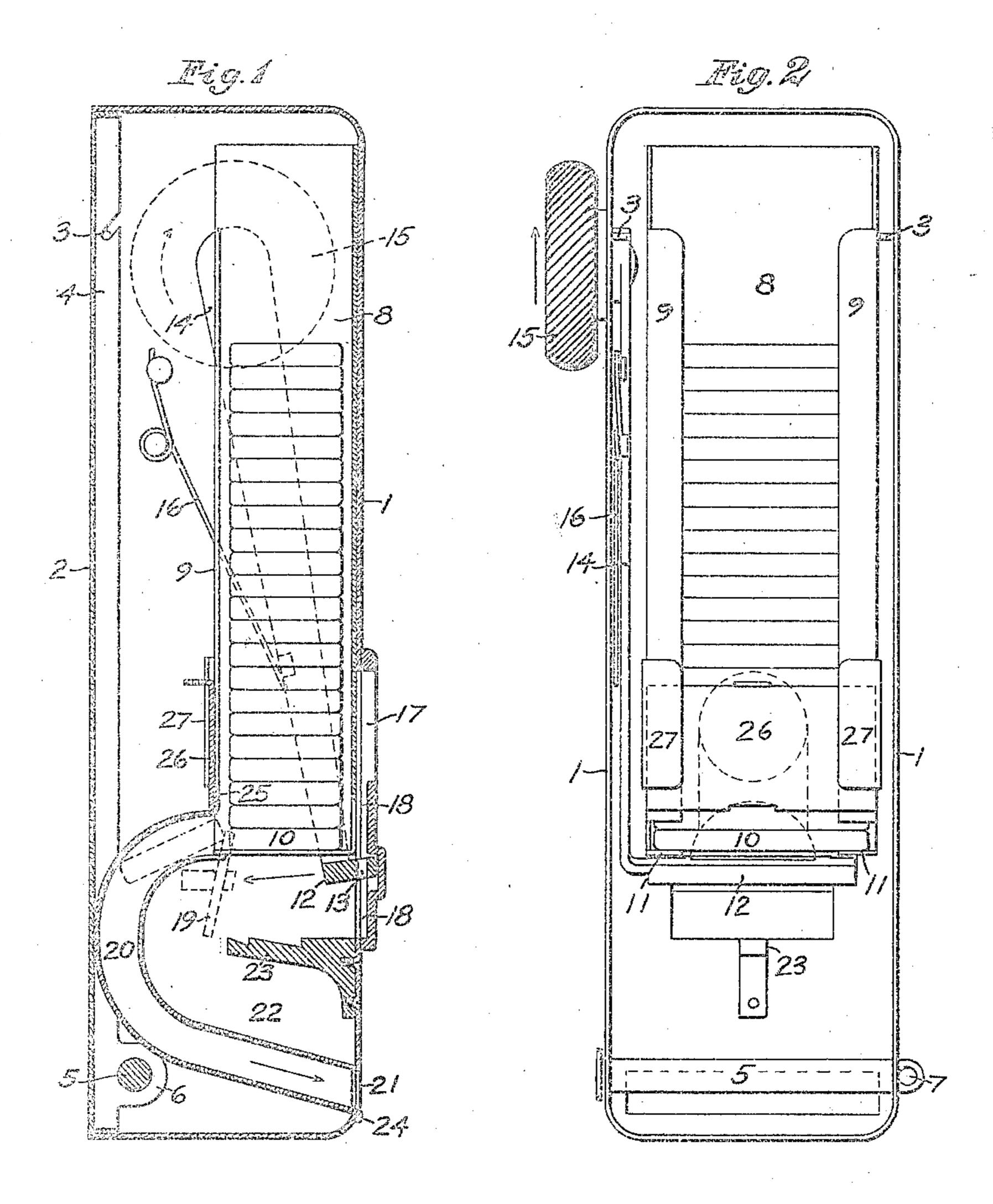
E. SPIEGEL. SLOT MACHINE. APPLICATION FILED MAY 13, 1909.

953,153.

Patented Mar. 29, 1910.



WITNESSES: F. B. Pry.

Edward Spigel

aren worker

NITED STATES PATENT OFFICE.

EDWARD SPIEGEL, OF NEW YORK, N. Y.

SLOT-MACHINE.

953,158.

Specification of Letters Patent.

Patented Mar. 29, 1910.

Application filed May 13, 1909. Serial No. 495,642.

To all whom it may concern:

citizen of the United States, residing at New | forated ears 6 on the back 2. A hole 7 in the York city, county and State of New York, 5 have invented new and useful Improvements in Slot-Machines, of which the following is

a specification.

My invention relates to machines of the kind by which chewing-gum, confectionery, 10 and other merchandise in small packages of uniform size, is delivered by mechanism controlled by the deposit of a coin or check, or similar token, in a designated receptacle in the machine.

The object of my invention is to produce a machine of the kind referred to which shall be small and compact, simple in mechanism and reliable in operation, and which is readily accessible in all its parts for 20 emptying and refilling it or for clearing it of obstructions.

One feature of construction and operation by which I attain the object designated, is an arrangement by which the coin itself 25 is utilized as the device for engaging a package of merchandise and expelling it from the holder in which the supply of packages is held.

Another feature of the machine consists 30 in the use of a detent cooperating directly with the coin to prevent retrograde movement of the coin before the completion of the package-expelling hovement.

Other features of the invention will be 35 pointed out in connection with the description of the preferred embodiment of the invention, which is illustrated in the accompanying drawings.

In the drawings, Figure 1 is a vertical 40 median section of the machine, looking from left to right, and Fig. 2 is a rear elevation

of the machine.

The working parts of the illustrated embodiment of my invention are inclosed in a 45 casing 1, which is removably secured to a flat back 2. The back may be secured, by any convenient means, to a wall, the back of a theater seat, or any other convenient place. As a convenient means for securing the cas-50 ing to the back, I provide the sides of the casing, near the top, with inwardly projecting pins 3, which engage inclined slots formed in two flanges 4 at the lateral edges. of the back. The casing and the back are 55 secured together near the bottom also, by a

bolt 5, which is passed transversely through Be it known that I, Edward Spiegel, a the sides of the casing and through perend of the bolt receives a suitable lock or seal, and when the bolt is thus secured in 60 place, the casing cannot be removed from the back.

> The packages of chewing gum or other merchandise, are stacked in an upright; holder 8 which is mounted within the cas- 65 ing and fixed at the front thereof. This holder is open at the top and the back to facilitate the insertion of packages therein, but has inwardly extending flanges 9 at the back to retain the packages. The stack is sup- 70 ported by the lowermost package 10 which rests, at its ends, upon inwardly extending horizontal flanges 11. Between these flanges 11, the bottom of the holder is open to permit the engagement of the coin with the 75 package, as described later.

The coin is actuated, in expelling a package, by a coin-carrier consisting of a horizontal bar 12 provided with a vertical slot 13. This bar is mounted on the lower end 80 of a depending arm 14, which is pivoted in the side of the casing, and is connected with a knob 15 outside of the casing. A wire spring 16 normally holds the arm 14 in forward position, as shown in the drawings, 85 but when the knob is turned in the direction indicated by the arrows in the drawings, the coin carrier is moved beneath the stack holder and rearwardly, to the position indicated in dotted lines in Fig. 1.

In the operation of the machine a coin is inserted, through an opening 17 at the front of the machine, in a short vertical coinchute 18, and the coin falls to the bottom of this chute. In falling, the coin enters the 95 slot 13 in the coin-carrier. The knob 45 is. then turned, and the coin-carrier moves the coin rearwardly beneath the stack. The upper edge of the coin during this movement, engages the lowermost package 10, and 100 thereby expels it from the rear of the stackholder and into a chute 20, by which it is delivered at the front of the machine, through an opening 21 therein. When the coin reaches the position shown at 19 in Fig. 1, it 100 falls into a space 22, between the chute and the walls of the casing.

During the movement above described. the coin is supported in proper position in the coin carrier by a coin support in the 110

form of a horizontal arm 23, extending rearwardly from the front of the casing. In order to prevent retrograde movement of the coin, before the package is completely 5 expelled, the upper surface of the coin support is notched to form detents, as shown in Fig. 1, and these detents cooperate directly with the edge of the coin. This prevents fraudulent operation of the machine, 10 since, in the absence of such a device, it might be possible by a quick, short movement of the coin holder and the coin, to 15 could then be returned to its original posi- stack-holder, said mechanism instacting a

20 access is thus afforded to the stack holder. | tuting, with the walls of the casing, a receptacle the chute 20 must be removed, and the chute is therefore secured in place by means permitting its ready removal. To this end, 25 the lower end of the chute is provided with a lip 24, which hooks over the lower edge of the opening 21. The upper end of the chute has an upwardly extending hip 25, which is engaged by a plate 26. The plate slides ver-30 tically between the flanges 9 on the stack holder, and guides 27 fixed to the sides of the stack holder. Upon raising the plate 26 the chute may be disengaged at both ends | front of the casing, the chute constituting, and removed from the casing.

this machine is extremely simple, as it comprises only what is, operatively, a single moving part, and the machine is thus inexpensive to construct and not liable to de-40 rangement. By the use of the knob and depending arm to actuate the coin-carrier, in place of the usual slide or plunger, the mechanism is rendered very compact, so that the machine is adapted for use in the-

•

aters or other places where only a limited 45 amount of space is available.

Various modifications may be made in the embodiment of my invention hereinbefore described without departure from the nature of the invention as defined in the fol- 50 dowing claims.

I claim:

1. A com-controlled vending machine comprising a back, a casing removably secured thereto, a stack-holder mounted in 55 and fixed to the casing, mechanism mounted expel a package without moving the coin in and carried by the casing for expelling a to the end of the coin support, and the coin | package from the bottom of the stack in the tion so as to engage a second package, in- coin-carrier movable beneath the stack- 60 stead of falling into the coin receptacle 22. | holder, and a curved chute extending from ·When it is necessary to refill the machine, i the rear of the bottom of the stack-holder the casing is removed from the back, and to the front of the casing, the chuic consti-To remove the coins from the coin receptacle for coins and being removable to re- 65 move the coins from said receptacle.

2. A coin-controlled vending machine comprising a back, a casing removably secured thereto, a stack-holder mounted in and fixed to the casing, mechanism mounted 70 in and carried by the casing for expelling a package from the bottom of the stack in the stack-holder, said mechanism including a coin-carrier movable beneath the stackholder, a curved chute extending from the 75 rear of the bottom of the stack-holder to the with the walls of the casing a receptacle for It will be noted that the mechanism of coins and being removable to remove the coins from said receptacle, and a short 80 notched arm attached to the interior of the easing below the coin-carrier and supporting the coin, its notches forming detents to prevent retrograde movement of the coin.

EDWARD SPIEGEL. In the presence of— CLARENCE G. GALSTON, F. B. Roy.