J. J. McCARTHY.

COIN CONTROLLED VENDING MACHINE.

APPLICATION FILED OCT. 21, 1907.

914,444.

Patented Mar. 9, 1909.

2 SHEETS—SHEET 1.

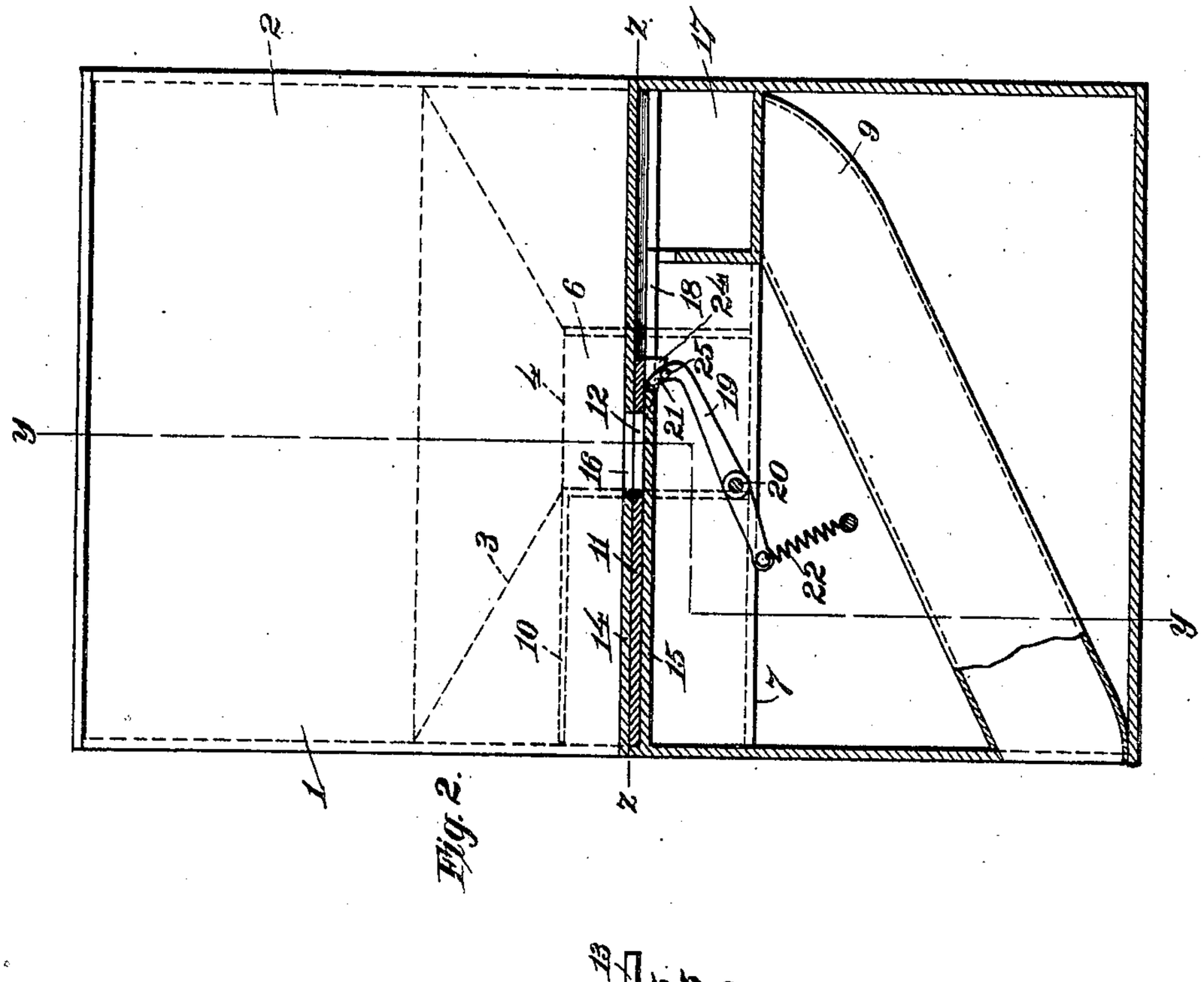

Fig. 2.

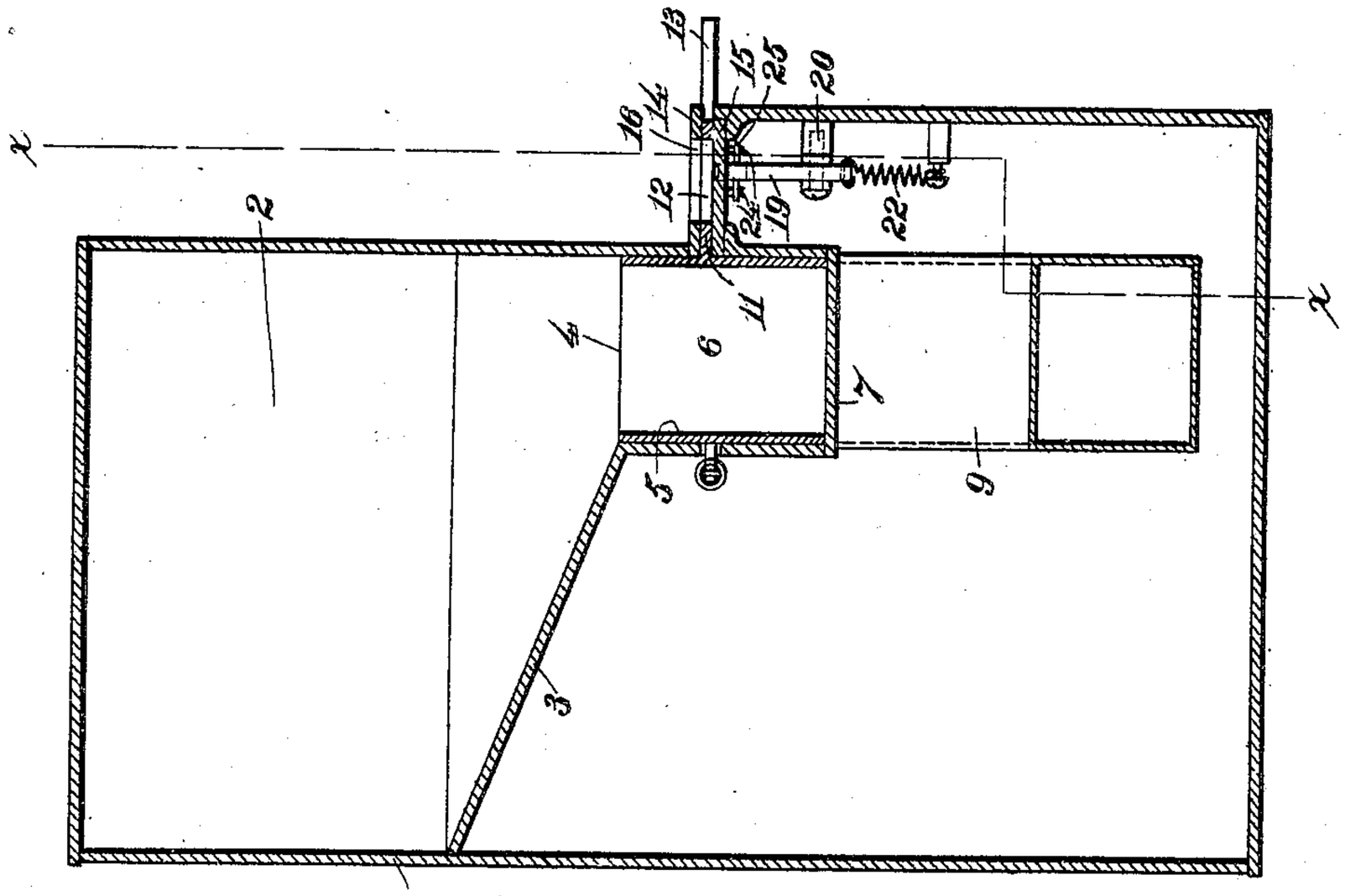

Fig. 1.

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Inventor:
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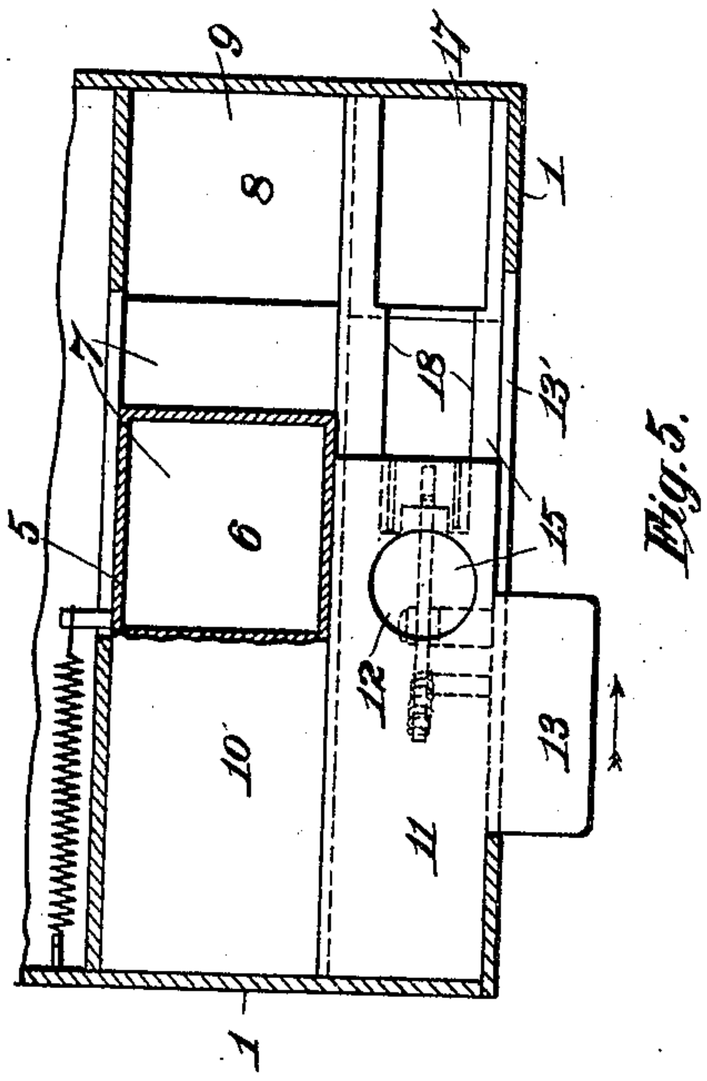

Fig. 5.

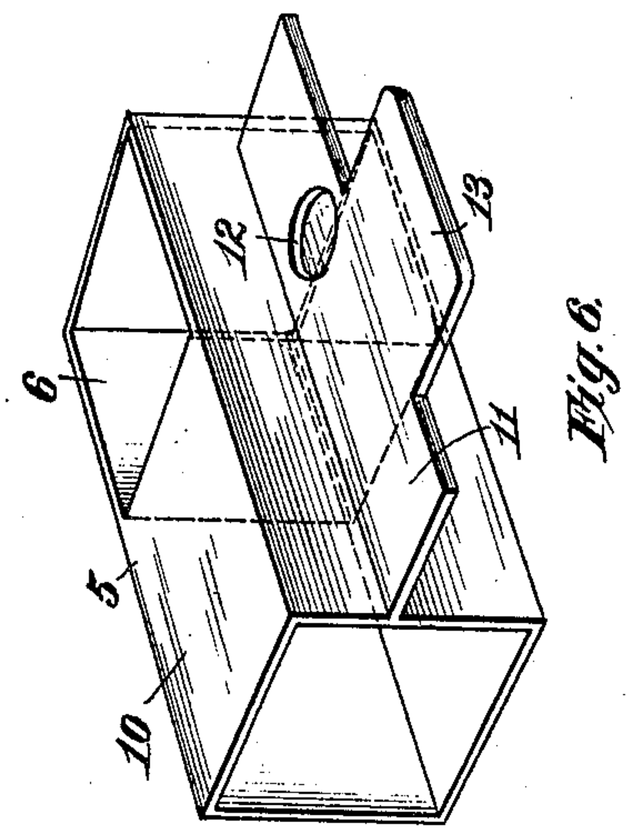

Fig. 6.

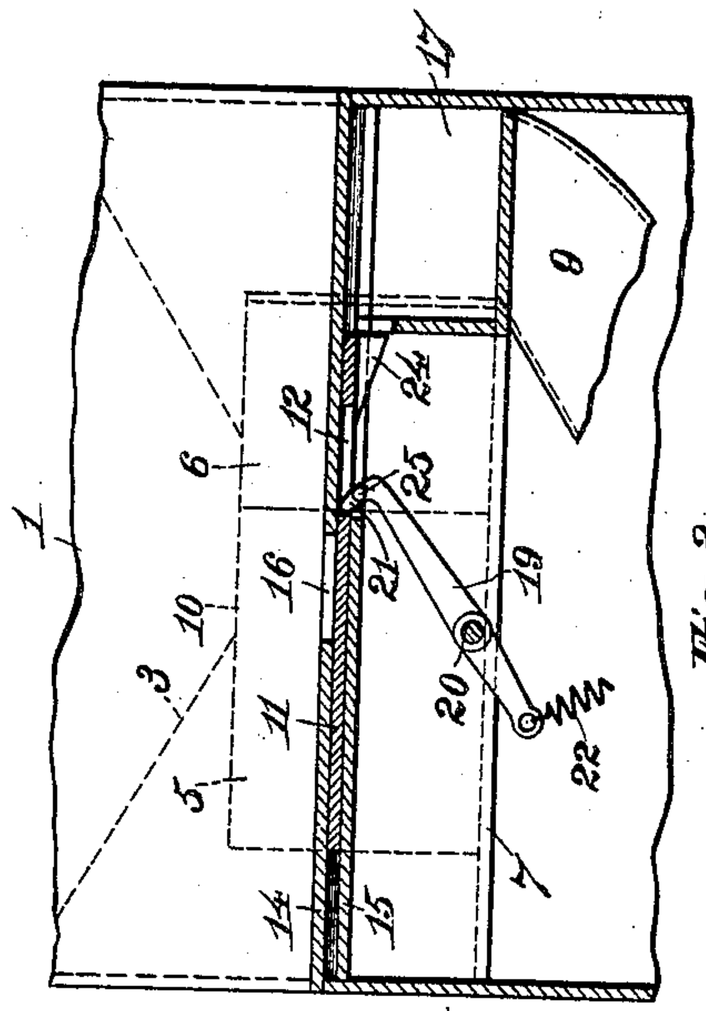

Fig. 3.

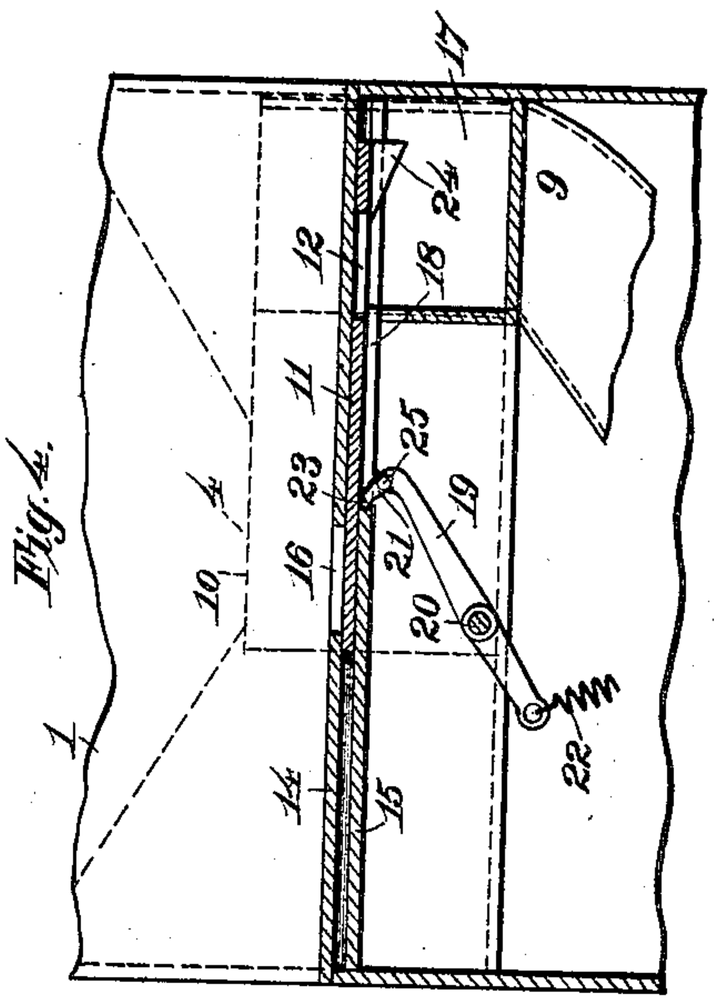

Fig. 4.

Witnesses;

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UNITED STATES PATENT OFFICE.

JOHN J. McCARTHY, OF CHICAGO, ILLINOIS.

COIN-CONTROLLED VENDING-MACHINE.

No. 914,444. Specification of Letters Patent. Patented March 9, 1909.

Application filed October 21, 1907. Serial No. 398,320.

To all whom it may concern:

Be it known that I, JOHN J. McCARTHY, a citizen of the United States, residing in Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Coin-Controlled Vending-Machines, of which the following is a specification.

My invention relates to coin controlled vending machines and particularly to those adapted to dispense measured quantities of loose material, such as peanuts, popcorn or the like, from a container or hopper.

The object of my invention is to provide a machine of the class mentioned which shall be easily operated, of few parts and which shall not readily get out of order.

Other objects will appear hereinafter.

My invention consists generally in a hopper having a discharge opening in its bottom, and a discharge chute remote from said opening, in combination with a slide having a pocket open at its top and bottom and adapted in one position to receive material from said hopper and in another to discharge into said chute, a plate secured to the side of said slide and having a coin opening therein, and a member adapted to engage the walls of said coin opening when empty, at a point intermediate of normal and discharge positions of the pocket, to prevent further movement of the slide.

My invention further consists in various details of construction and arrangements of parts all as will be hereinafter fully described and particularly pointed out in the claim.

My 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 transverse section of a vending machine embodying my invention, the same being taken on substantially the line *y*—*y* of Fig. 2, Fig. 2 is a vertical longitudinal section on the line *x*—*x* of Fig. 1, Fig. 3 is a similar detail view illustrating the parts in locked position, Fig. 4 is a similar view illustrating the parts in discharge position, Fig. 5 is a detail plan view taken on the line *z*—*z* of Fig. 2, and Fig. 6 is a perspective view of the slide.

Referring to the drawings, 1 indicates the casing of the machine which may be of any suitable size or form, the upper portion of the casing constitutes a receptacle for the material to be vended.

3 indicates the bottom of the receptacle which is hopper shaped and is provided with the discharge opening, 4. Beneath the hopper, 3 is arranged the slide, 5, having a box or compartment, 6, opened at top and bottom and which normally lies directly beneath the discharge opening, 4. The slide, 5 rests upon a plate, 7 which closes the bottom of the box, 6, except when in discharge position. In operating the machine, when the slide is moved to the end of its travel it discharges through an opening, 8 in the plate, 7, into a chute 9. When the slide is moved to discharge position, a plate, 10, forming a part of the slide closes the opening, 4, in the hopper.

Fixed to one side of the slide is a plate, 11 having a coin opening, 12 and a handle, 13, the latter of which extends through a slot, 13′ in the side of the casing and by means of which the slide is operated. The plate, 11 is arranged to slide between the plates, 14 and 15, the top plate, 14 forming a portion of the casing and having a coin opening, 16 which registers with the opening, 12 in the plate, 11, when the plate and slide are in normal or retracted position. To operate the machine, a coin of the proper denomination is placed in the recess, 12, through the opening, 16, and the handle, 13, pushed in the direction of the arrow, (see Fig. 5). The plate, 15, forms a slideway for the coin to rest upon until the slide reaches discharge position when the coin is dropped into the box, 17. To prevent a smaller coin than the one intended to be used, from operating the machine, the plate, 15, is cut away as at 18 after it passes beyond the opening, 16, leaving but a small ledge for each side of the coin to slide upon. It is obvious that a smaller coin will drop through as soon as the slide is moved from normal position.

To prevent the machine from being operated except when a coin is in the coin opening, 12, I provide a suitable device which will arrest the movement of the slide before it reaches discharge position. 19 indicates an arm or lever pivoted as at 20 and having a hook or nose, 21, which is normally held in engagement with the bottom of the plate, 11, by a spring, 22. The hook, 21, lies in the path of the coin recess, 12, which it enters at the early part of the movement of the slide unless a coin is in the recess. This locks the slide against further movement as shown in Fig. 3. The plate, 11, is of substantially the

same thickness as the coin to be used, hence, when the coin is in the recess the plate, is free to slide, the coin preventing the hook, 21, from entering the recess. To prevent the slide being locked when a coin which is slightly worn is used, I slightly bevel the end of the hook, 21, as at 23. To avoid locking the machine on its return stroke, I provide the cam plates 24, which engage a pin, 25, on the hook, 21, and withdraws the hook from the coin recess.

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

In a vending machine, a reciprocatory delivery device, in combination with a plate fixed to one side thereof and having a coin opening, means for holding a coin of proper size within said opening until said delivery device reaches discharge position, a spring pressed member adapted to enter said coin opening at an intermediate position except when containing a coin, a pin extending from the side of said member and a cam on said slide, adapted to engage said pin to retract said member from said opening upon the return movement of said slide, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN J. McCARTHY.

Witnesses:

HELEN F. LILLIS,

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