

UNITED STATES PATENT OFFICE.

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COIN OR CHECK CONTROLLED DELIVERY APPARATUS.

SPECIFICATION forming part of Letters Patent No. 512,758, dated January 16, 1894.

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To all whom it may concern:

Be it known that I, JOHN W. SMALLWOOD, a citizen of the United States, and a resident of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Coin or Check Controlled Delivery Apparatus, of which the following is a specification.

The object of my invention is a device to be used in retail stores to induce custom, and it consists of suitably inclosed mechanism to be actuated by a check or token, one or more of which may be given to each purchaser according to the amount of the purchase made. Each one of these coins or tokens, when dropped into the case, actuates a mechanism which, after being moved a certain number of times, frees a coin or token of certain value contained within the case, and permits it to pass to the outside and be taken by the customer who has dropped in the last token to trip the freeing device; all of which will be clearly understood from the following description of the accompanying drawings, in which—

Figure 1 is a view, partly in side elevation and partly in transverse vertical section, of a device containing my improvements. Fig. 2 is a partial front elevation of the same, with a portion of the front case broken away to expose the parts back of it. Fig. 3 is a rear elevation of the device with the lower portion of the lower case broken away and the hinged cover removed to expose the operative parts. Fig. 4 is a side elevation of a slide which holds the coin to be freed and delivered to the outside of the machine. Fig. 5 is a plan or top view of the same. Fig. 6 is a detailed view in side elevation of the tilting tray and its locking detent. Fig. 7 is a top or plan view of the same.

Referring to the parts, which are indicated by similar reference letters wherever they occur throughout the various views, A represents the case of the machine, which may be of any approved design, the one shown being rectangular except the rear top portion, which is closed by a segmental cover A' , which is hinged to the front and provided with a hasp a , which takes over a staple or keeper a' , the keeper being adapted to receive the yoke of a padlock for locking the case. The case is

provided with a rearwardly opening drawer A^2 , and upon the front wall of the case is a coin or token receptacle a^2 , to receive the coins or tokens which actuate the mechanism. This coin chute is arranged, as seen, at one side of the front. Another chute a^3 is arranged inside of the machine to convey the released coin to a pocket a^4 on the front of the machine. The sides of the delivery chute a^3 have, at their upper ends, outwardly projecting lugs a^5 , which serve as bearings for the tilting tray B, shown clearly in Fig. 7, the said tray being adapted, when released, to swing down into the chute and drop the coin, check or token which may be upon it, into the chute a^3 , from which it is passed to the outside of the case and into the pocket a^4 .

Above the tray B is arranged in suitable guide ways the sliding plate C, shown clearly in Figs. 4 and 5. This plate has a half bottom c , upon which the coins or tokens, of certain value are placed, the other portion of the plate being open, and the open portion overhanging by top plate c' . The coins or tokens shown in Fig. 2 are represented by D. The plate C has attached to its end a pull rod c^2 , which extends to the outside of the case and is provided with a ring c^3 . Any suitable number of the coins or tokens D is placed upon the bottom c . The sliding plate C has a downwardly projecting flange at its forward end, which is guided between the front of the case and the inwardly projecting web of the plate c^4 , and is held in position by an angle plate c^5 above it. The upwardly projecting flange of the plate C passes back of the rear wall of a chamber C' , which is practically an upper extension of the chute a^3 . The coins or tokens upon the portion c of the sliding member C, are deposited one at a time upon the tray B by pulling out the rod c^2 , the plate c' passing between the lower coin or token D and the upper ones, and supporting those above the lower one in the upper position while the lower one is deposited upon the tray through the opening in plate C. When this one has been released and dropped through the chute a^3 , the slide is again drawn out to drop another coin or token upon the tilting tray B, and again pushed back to the closed position to support the coins or tokens above it. The tilting tray B

has an inwardly extending arm *b* provided with a counter weight *b'*, which is adjustable along the arm to nearly counterpoise the coin or token upon the tray, and to bring the tray to a horizontal position when the coin is dropped from it into the chute *a*³. The tilting tray has an angle arm *b*², which is engaged by the detent of the pivoted arm E to hold it in a horizontal position. The arm E is pivoted in the upper end of the long arm *f* of a U shaped standard F. A ratchet wheel G is journaled between the arms of the U shaped standard F and has projecting from one of its arms a pin *g* in a position to engage the lower end of the pivoted arm E as the ratchet wheel is revolved, and throw its detent from engagement with the arm *b*² of the tilting tray, which will permit the tray to be tilted by the weight of the coin upon it and deposit the coin in the chute *a*³. The arm E is returned to a position to again engage the arm *b*² of the tilting tray by a spring *e* as soon as the tray is returned to the horizontal position by the counter weight *b'*.

The ratchet wheel is actuated by a pawl *g'*, which is pivoted in the end of an arm H, the arm being pivoted in the upper end of the standard I, which is secured to the bottom of the case. At the forward end of this arm H is a platen *h*, which projects under the discharge end of the coin chute *a*². Upon the opposite or inner end of the arm is a screw rod upon which a screw tapped counter weight *h'* is adjustable for the purpose of returning the arm and platen to its upper position after it has been rocked by a coin falling upon the platen *h*.

The ratchet wheel G may have any number of teeth desired, it being the intention to turn it the distance of one tooth each time the arm H is depressed by a coin or token falling upon the platen *h*. The case front opposite the chamber C' has fitted into it a glass or transparent plate *a*⁶, to expose the coins or tokens held within the receptacle, and also upon the tilting tray B.

The operation of the device is as follows: Assuming that the tokens or coins in the receptacle C, and the one upon the tray B, to be silver dollars, or any coin or token of any particular value, when the customer makes a purchase, depending upon the amount of his purchase. These he may drop one at a time in the chute *a*², each one of course advancing the ratchet wheel one notch. This will continue until the pin *g* striking the lower end of the arm E, releases the tilting tray and the lucky purchaser who drops in the token which trips the tray, receives the dollar, or coin or token of whatever value may be upon it. So soon as the tray is released, it is brought to a horizontal position by the weight *b'* and the spring *e* draws the detent of the arm E over the angle arm *b*² of the tray and holds it in the horizontal position until again tripped by a revolution of the ratchet wheel G. After a

coin has been released from the tray B, the attendant pulls out the slide C and deposits another coin and closes the slide as before. The purchasers are enabled to see that the coin is always upon the tray through the transparent plate *a*⁶. The tokens which fall upon the platen *h* drop through an opening in the lower part of the case into the drawer A², and may be removed as often as desired. To place coins in the upper receptacle C, the door or cover A' is opened upon its hinges and again locked after a coin is placed in position.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the case, a coin receiving and delivering chute, a tilting tray for the reception of the coin pivoted in the upper end of the delivery chute, a pivoted, detent arm to hold said tray in a horizontal position, a pivoted arm extending under the discharge end of the receiving chute and carrying a pivoted pawl, a ratchet wheel engaged by said pawl, a pin projecting from the face of said ratchet wheel to trip the pivoted arm which permits the rocking of the tilting tray at each revolution of the wheel, substantially as shown and described.

2. The combination of the case A, the chute *a*³ discharging to the outside of the case, the tray B pivoted to tilt in the upper end of said chute, the pivoted arm E having a detent at its upper end to lock the tray in a horizontal position and having its lower end extending down in the path of a knocker or pin, the ratchet wheel G, the pin *g* carried by said ratchet, the lever H carrying the pawl *g'* to engage the teeth of the ratchet wheel, the chute *a*² opening from the outside and discharging over the arm H, whereby said arm is rocked each time a coin or token is dropped into the chute and the ratchet wheel advanced to bring its pin in contact with the arm E.

3. The combination of the case having outwardly and inwardly opening coin or token chutes, a tilting tray arranged in the upper end of the outwardly opening chute, means to lock the said tray in its horizontal position, and means actuated by the coins or tokens dropped into the inwardly opening chute to release said tray, the coin receptacle C' above the tray, the sliding plate C below said coin receptacle to support a number of coins and having an opening in it for coins to drop through upon the tray, and the overhanging plate *c'* to prevent more than one coin passing through upon the tray, a pull rod connected to said sliding plate and extending to the outside of the case for the purpose of supplying the tray with one coin after another has been released, substantially as shown and described.

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Witnesses:

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