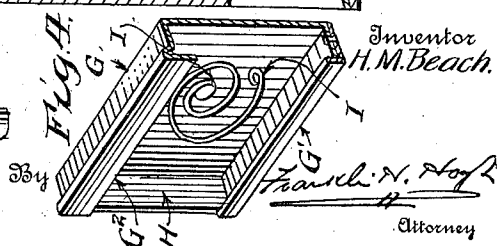
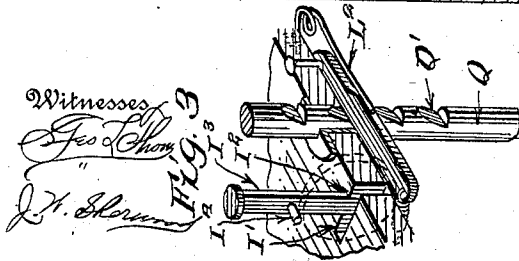
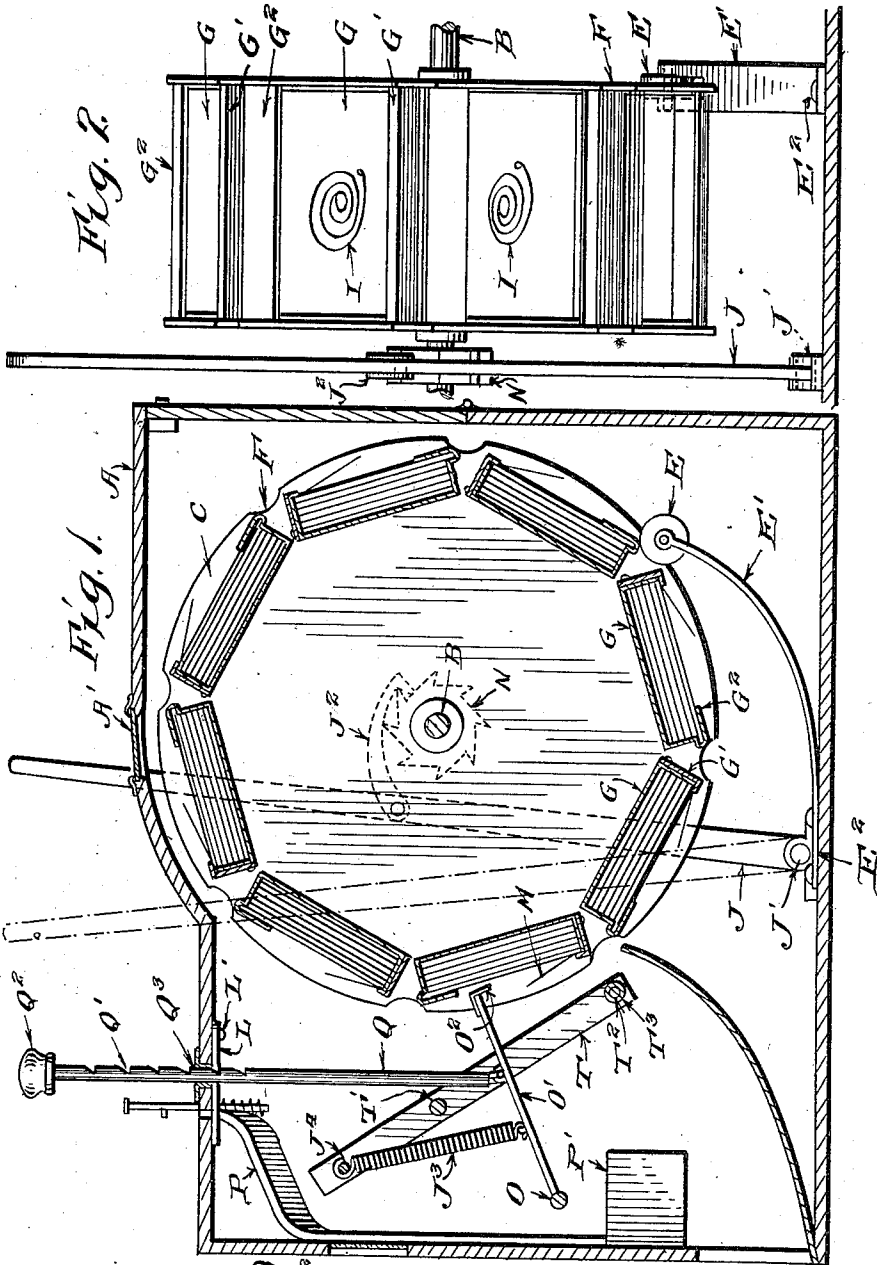


H. M. BEACH.
 COIN CONTROLLED DELIVERY APPARATUS.
 APPLICATION FILED FEB. 11, 1911.

1,011,105.

Patented Dec. 5, 1911.



Witnesses
 Geo. L. ...
 J. H. ...

Inventor
 H. M. Beach.
 Transcribed by
 Attorney

UNITED STATES PATENT OFFICE.

HENRY M. BEACH, OF REMSEN, NEW YORK, ASSIGNOR TO BERTHA W. BEACH, OF
REMSSEN, NEW YORK.

COIN-CONTROLLED DELIVERY APPARATUS.

1,011,105.

Specification of Letters Patent.

Patented Dec. 5, 1911.

Application filed February 11, 1911. Serial No. 608,144.

To all whom it may concern:

Be it known that I, HENRY M. BEACH, a citizen of the United States, residing at Remsen, in the county of Oneida and State of New York, have invented certain new and useful Improvements in Coin-Controlled Delivery Apparatus; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in coin-controlled vending apparatus, the object in view being to produce a series of movable magazines upon a rotary or other carrier, each magazine adapted to contain envelopes to be delivered singly or otherwise by mechanism which will be hereinafter fully described and then specifically defined in the appended claims.

I illustrate my invention in the accompanying drawings, in which:—

Figure 1 is a vertical central sectional view through my improved coin-controlled delivery apparatus. Fig. 2 is an edge view. Fig. 3 is a detail perspective of means for holding a depressible rod, and Fig. 4 is a detailed perspective view.

Reference now being had to the details of the drawings by letter, A designates the casing of the apparatus having a shaft B journaled in the opposite walls thereof to which is fixed a rotary carrier C having in the disks forming the ends of the cylinder a series of scallops F, and E is an anti-friction roller mounted upon the resilient arm E', which latter is fastened at E² to the bottom of the casing, the roller being adapted to engage one or another of the scallops F to hold the rotary carrier at rest. Fixed to said carrier is a series of magazines, each designated by letter G, a detail perspective view of one of which is shown in Fig. 4 of the drawings, the bottom of each having a resilient angled member G' fastened thereto and designed to hold the envelopes within the magazine and also a hook-shaped flange G² along its opposite longitudinal edge. One end H is closed and the other open, through which the cards may be inserted. A spring I is fixed to the bottom of each

recess and is adapted to bear against the rearmost of the cards therein, in order to cause the same to be fed forward to the opening and allow the flaps to project there-through to be gripped by mechanism which will be hereinafter described for delivering the envelopes from the magazine.

A lever J is pivotally mounted upon a pin J' and carries a pivotal pawl J², the end of which engages the teeth of the ratchet wheel N, whereby, as the lever is swung back and forth, partial rotary movements may be imparted to the rotary carrier to present any one of the magazines in proper position for the envelopes containing the cards to be fed therefrom. A suitable sight opening A' is formed in the top of the casing, whereby the operator may see numbers appearing upon the magazines so that any particular magazine may be thrown into position to deliver any envelop desired.

Pivotally mounted upon the rock shaft O carried in the walls of the apparatus is a strip O', having a right angled clamping member O² at its end and pivotally connected to said strip is a push bar Q, having a series of teeth Q' formed in one edge thereof and a handle Q² at its upper end. Said push bar is guided in an opening Q³ formed in the top of the casing. A rack having two oppositely disposed strips T, one of which is shown in Fig. 1 of the drawings, is pivotally mounted upon a shaft T' which carry at their lower ends a round T² upon which is a cylinder T³ adapted to cooperate with the angled clamping member O² to grip the flap M of an envelop. A coiled spring J³ is fastened at one end to a round J⁴ connecting the two strips T and its other end fastened to the strip O' and serves to cause the rack to tilt under the tension of the spring J³ as the push bar is depressed, thus bringing the said clamping member O² and the roller T³ in clamping relation with the flap of the envelop.

L designates a plate pivotally mounted upon a pin L' fastened to the under surface of the top of the casing and is designed to engage one or another of the teeth Q' in the manner shown clearly in Fig. 3 of the drawings, and a spring L² is fastened to the top of the casing and bears yieldingly against said plate to hold the same in engagement with the teeth of the push bar.

A coin slot, designated by letter I', is formed

in the top of the casing and has an offset or recess I^2 in the wall thereof in which a vertically disposed spring-actuated coin pushing member I^3 is mounted and which has a projection or pin I^4 upon the face thereof adapted to engage the upper edge of the coin and affording means whereby, when the member I^1 is pushed down, the coin will be moved through the slot and crowding against the plate L will cause the same to swing laterally to allow the coin to pass into the chute P leading to the box P' .

The operation of my invention will be readily understood and is as follows:—The various magazines being filled with envelopes containing the article to be delivered, such as stamps, souvenir postal cards, etc., is given intermittent rotary movements by the swinging of the hand lever J , the pawl J^2 upon which it is mounted causing the rotary carrier to bring any one of the magazines in proper position to deliver an envelop. When the particular magazine from which an envelop is to be withdrawn is in proper position for delivery, the flap of the envelop will project through the opening of the magazine. The coin being deposited in a slot and pushed down by the member I^3 will cause the plate L to be released from the push rod Q , allowing the latter to return to its farthest outer throw. As the latter is pushed in, the shaft O will be rocked and the said clamping member O^2 moved toward and against the flap of the envelop simultaneously with the rocking of the shaft T' which will cause the roller T^3 to move toward the lower end of the magazine from which the envelop is to be delivered. As the clamping member O^2 comes in contact with the flap of the envelop, it will, in cooperation with the roller T^3 , grip the flap and, as said member O^2 and the clamping lever T move in the arcs of different circles, the envelop will be first raised slightly in order that its lower edge will be free from the flange G' and in so doing the upper edge of the envelop will rise into the hook portion of the flange G^2 . A further inward pushing movement of the bar Q will cause the envelop to be withdrawn from the magazine and the clamping member O^2 will gradually be freed from the flap of the envelop by the gradual separation of the clamping member O^2 and the roller T^3 .

When the latter are free from the flap of the envelop, the same having been withdrawn from the magazine, it will fall by gravity upon the concaved deflecting chute W and may be withdrawn through the opening A^2 in the end of the casing.

It will be understood that the push rod is normally at its farthest inner throw and said push rod may be moved to this position by the inclined edges of the teeth crowding against and throwing the plate L from engagement therewith. When it is desired to release the push bar, a nickel is pushed through the slot, causing the plate L to disengage the teeth of the push rod and the spring J^3 will return the parts to their normal positions. The second inward thrust to the push rod will cause the envelop to be delivered and it will be noted upon reference to the drawing that it will be necessary to make a complete throw of the push rod in order to successfully operate and deliver an envelop.

What I claim to be new is:—

1. A coin-operated vending apparatus comprising a casing, a rotary carrier, means for operating the same, a series of magazines, each having an open face, a resilient angled plate at the lower marginal edge of the opening, a hook-shaped flange forming the opposite edge of the opening, clamping means adapted to grip the projecting flap of the envelop and cause the same to be raised over said resilient plate and the envelop withdrawn from the magazine and delivered.

2. A coin-operated vending apparatus comprising a casing, a rotary carrier, means for operating the same, a series of magazines, each having an open face, a resilient angled plate at the lower marginal edge of the opening, a hook-shaped flange forming the opposite edge of the opening, a rock shaft, a strip fixed thereto and having a jaw at one end, a push rod fastened to said strip, a second rock shaft, a rack mounted thereon, a gripping roller carried by said rack, and a coiled spring connecting said strip and rack.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

HENRY M. BEACH.

Witnesses:

J. W. SHERWOOD,
FRANKLIN H. HOUGH.