

(No Model.)

H. MATTES.

COIN CONTROLLED VENDING APPARATUS.

No. 542,000.

Patented July 2, 1895.

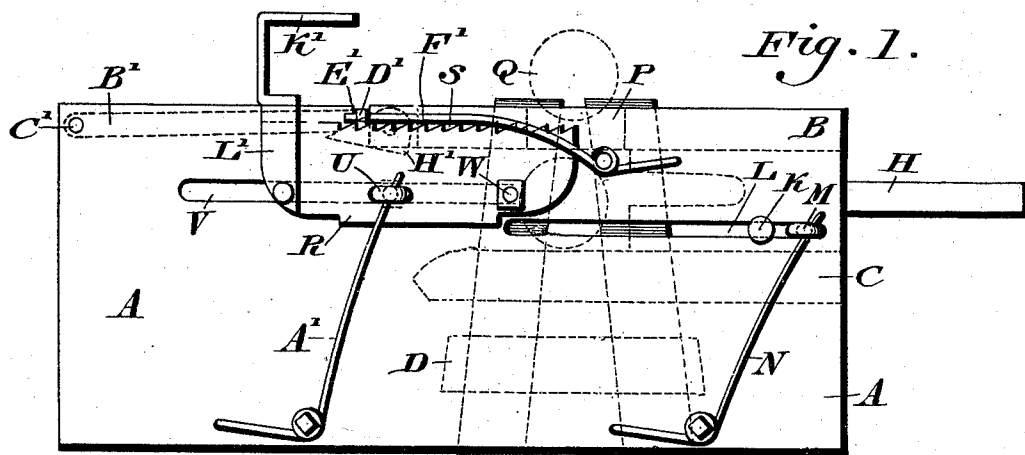


Fig. 2.

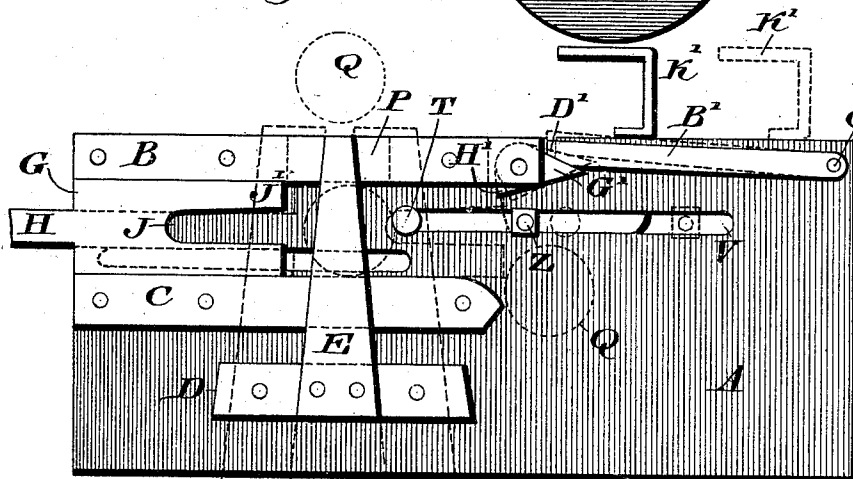
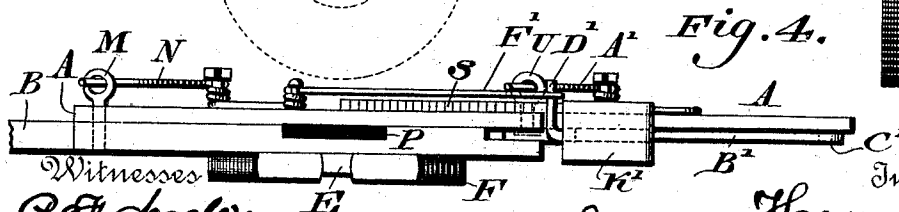
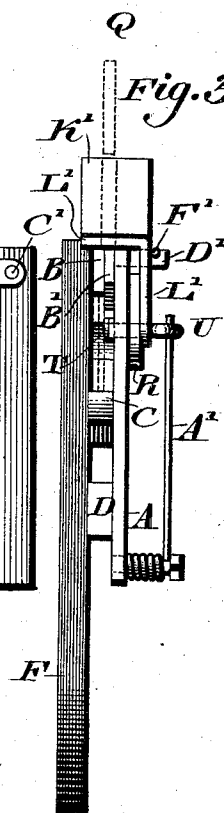


Fig. 3.



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COIN-CONTROLLED VENDING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 542,000, dated July 2, 1895.

Application filed June 13, 1894. Serial No. 514,414. (No model.)

To all whom it may concern:

Be it known that I, HENRY MATTES, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Coin-Controlled Vending Apparatus, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of improvements in a magnetic fraud-preventive attachment for coin-controlled vending apparatus, in which the construction and action of the operative parts are greatly simplified, the same being thereby rendered less liable to derangement than heretofore, all as will be hereinafter set forth.

Figures 1 and 2 represent side elevations of a coin-controlled vending apparatus embodying my invention. Fig. 3 represents an end view thereof. Fig. 4 represents a plan view of the same.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings, A designates the frame of the apparatus, and B, C, and D designate longitudinal pieces suitably attached thereto, and E designates a piece serving as a holder for the magnet F, the strips B and C, being arranged parallel to each other and in conjunction with the piece E, serving partially as guides for the plunger or pusher G, which has a handle H at one end, the other end being slotted, bifurcated, or forked at J.

K designates a pin passing through the slot L, one end of which is attached to the pusher G, the head of said pin extending over said slot and serving to keep the pusher in position laterally. M designates a projection or eye attached to said plunger which is engaged, in the present instance, by a spring N of suitable construction, whereby the plunger may be returned to its normal position.

P designates the receiving-slot for the coin Q, and R designates a traveler having a rack S, adapted to be moved longitudinally and supported by the pin T and the shank of the eye U, both of which pass through the slot V and are held in place by the nuts W and Z, respectively, the main object of the said pin T, however being to serve as an abutment

for the coin when the latter is advanced by the plunger.

A' designates a spring, one end of which engages the eye U, the other end being suitably attached to some fixed point of the frame.

B' designates an arm pivoted at the end of C', near the top of the side piece A, the other end forming the catch or pawl D', which rests in a notch E' in the top of the piece A. The catch D' has a recess for the reception of one end of a spring F', which tends to hold the catch D' always in contact with the teeth of the rack S, the other end of the spring being attached to some fixed point. The free end of the arm B' rests on one end of the dog G', which, in the present instance, is pivoted between an end of the strip B and the side piece A.

H' designates the heel end of said dog, which is adapted at certain times to be engaged by the end J' of the plunger G, as will be hereinafter explained. The traveler R has attached to it in any suitable manner, so as to overhang the side piece A, the delivery device K', which is to be located under and to one side of a chute. (Not shown.) In the present instance the device K' is attached to the rack S by the angle-shaped piece L'. Shown in Figs. 1 and 3.

It will be seen on reference to Fig. 3 that the head of the pin T is comparatively thin, so that a considerable space exists between the head of said pin and the inner face of the magnet F, the object of which will be hereinafter referred to.

The operation is as follows: A coin is dropped into the slot P and rests on the upper edge of the strip C and against the pin T. The pusher G is then forced forward into contact with the coin and, the movement being continued, the parts assume the position shown in dotted lines in Fig. 2, the coin falling to the bottom of the apparatus and the delivery device K being held in the position shown in dotted lines by means of the engagement of the catch D' into the end teeth of the rack S. The inward movement of the plunger G being continued the end J' of the same will strike the end H' of the dog G', rocking the same into position shown in dotted lines, thereby lifting the lever B' and the catch D',

whereupon the spring A' forces the traveler R and the device K' into the position shown in full lines once more.

It is obvious that the delivery device K' can be arranged to deliver the articles from the chute in either direction—that is to say, either push or pull it from the apparatus.

The devices usually employed in defrauding machines similar to the above are thin metal blanks of substantially the same diameter as the coin for which the machines are designed, and it will be seen that if one of these blanks be inserted in the slot P the magnet will instantly attract the same to one side to itself, as shown in Fig. 3, and when the plunger G is moved forward the blank will simply be pushed past the pin T without fouling the same and then dropped into the bottom of the apparatus without actuating the same, since the plunger J never comes into contact with the pin T, as is evident, it being evident that when there is no insertion of a coin, owing to the slot of the plunger, the latter simply passes the pin T without imparting motion to the traveler.

The springs A' and N act to restore the parts to their original positions.

It is obvious that the shape or exact location of the magnetic device and of the springs relative of the other parts can be varied, and I do not desire to be limited to the exact construction I have herein shown and described.

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

1. In a coin-controlled vending apparatus, a piece with guide ways thereon, a plunger movable between said guide ways, a traveler movable on said frame, a magnet supported on said frame, and a projecting pin on said traveler adapted to be engaged by a coin inserted between the same and the said plunger, a passage way between said pin and said magnet, said parts being combined substantially as described.

2. In a coin-controlled vending apparatus, a piece, a plunger with a forked end, a mag-

net supported on said piece, and a traveler having a projecting pin with a passage way between its head and the magnet, said parts being combined substantially as described.

3. In a coin-controlled vending apparatus, a supporting piece, a plunger having a forked end guided thereon, a magnet on said piece, a traveler with a projecting pin adapted to be engaged by a coin inserted between the same and the said plunger, a rack on said traveler, a delivery device connected with the traveler, a pawl engaging said rack, and springs for resetting said plunger and traveler, said parts being combined substantially as described.

4. In a coin-controlled vending apparatus, a piece with slots therein, a plunger having a forked end and provided with an eye, a spring engaging said eye for re-setting said plunger, a magnet on said frame, a traveler having a rack and a projecting pin, the latter having a passage way for a metal blank between it and said magnet, and a detent device for said traveler released by engagement of the plunger therewith, said parts being combined substantially as described.

5. The side piece A, the strips B and C, the pusher G having an eye M and a spring N, a magnet suitably supported adjacent thereto, slot P, dog G', catch D', rack S having a pin T and eye U, and spring A', the above parts being combined substantially as described.

6. In a coin controlled apparatus, a traveler having a rack thereon, an arm for locking the same, a projection on said traveler, and a plunger, between which plunger and projection a coin is adapted to be inserted, in combination with a dog, the latter being adapted to be engaged by said plunger, and to also engage said arm, whereby the latter will be released from engagement with said rack, so that the traveler will be returned to its normal position, substantially as described.

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