

(No Model.)

2 Sheets—Sheet 1.

H. A. MANLEY.

COIN CONTROLLED ADVERTISING MACHINE.

No. 545,633.

Patented Sept. 3, 1895.

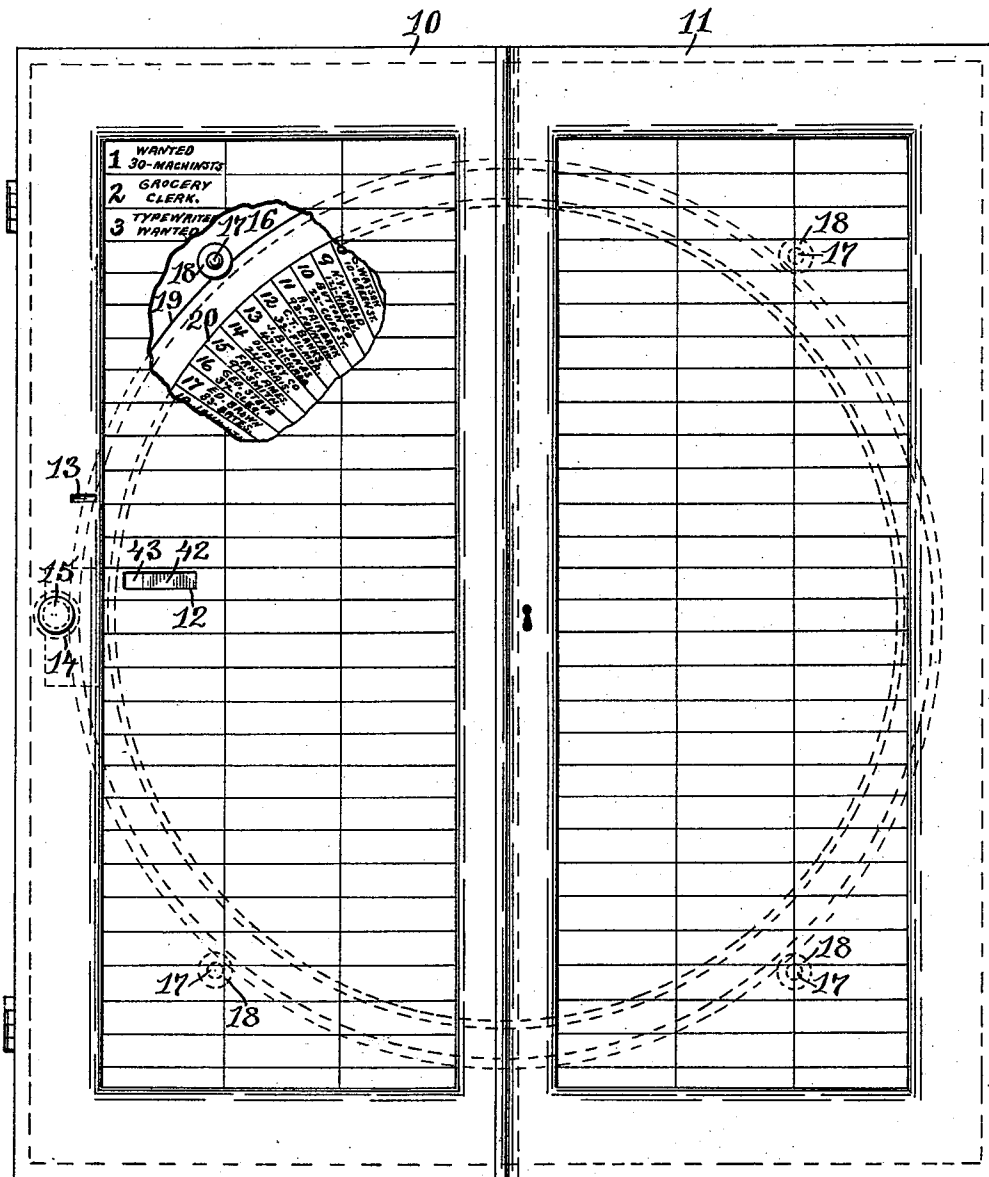


Fig. 1.

Witnesses:

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Inventor:

Horace A. Manley
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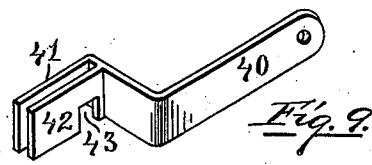
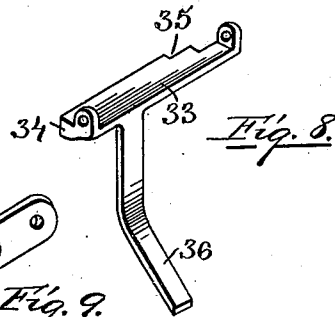
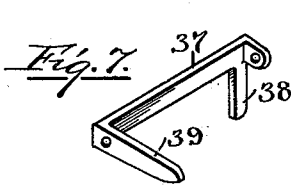
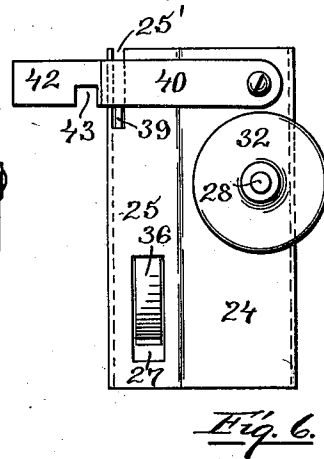
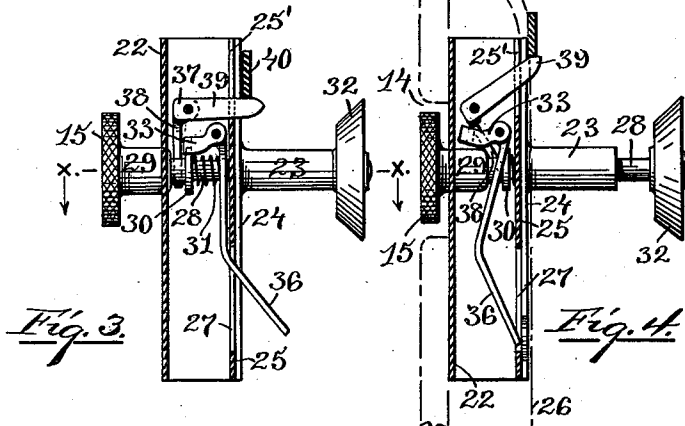
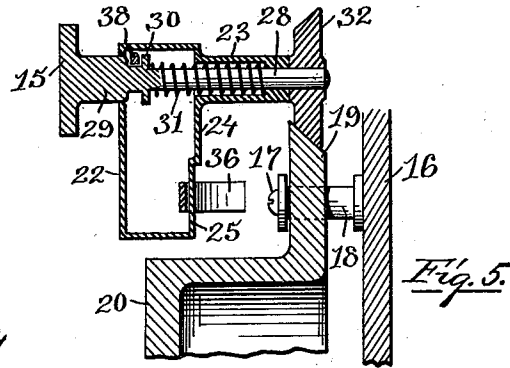
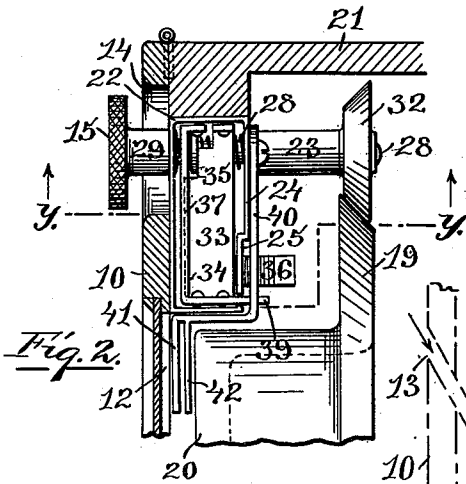
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UNITED STATES PATENT OFFICE.

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COIN-CONTROLLED ADVERTISING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 545,633, dated September 3, 1895.

Application filed June 28, 1894. Serial No. 515,976. (No model.)

To all whom it may concern:

Be it known that I, HORACE A. MANLEY, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Coin-Controlled Advertising-Machines; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to improvements in coin-controlled advertising-machines.

One object of the invention is to provide a novel coin-controlled device which may be more securely locked than those heretofore constructed.

Another object is to so mount the address-disk of a coin-controlled advertising-machine that no derangement of the parts will result from the warping of the disk.

Another object is to provide a novel coin-lever adapted to extend across the entire width of the coin-chute.

Another object of the invention is to so construct a shutter for a coin-controlled advertising-machine that a portion of the address-carrying device may be passed there-through.

Another object is to simplify the construction and to increase the efficiency of machines of this class.

The invention consists in the peculiar means for operating the address-carrying disk.

The invention also consists in the novel construction of the coin-lever and in its peculiar combination with the shaft for operating the address-carrying device.

The invention likewise consists in the peculiar construction of the shutter.

The invention still further consists in the construction of the address-carrying device and the manner in which it is mounted.

The invention likewise consists of the means for operating the shutter.

The invention still further consists in such other novel features of construction and combination of parts as may hereinafter be more fully described, and pointed out in the claims.

Figure 1 represents a front view of the improved coin-controlled mechanism, portions

of the same being broken away to show the address-carrying device and to indicate the manner of mounting the same. Fig. 2 represents a cross-sectional view of portions of the same, taken on a line just above the coin-controlled mechanism. Fig. 3 represents a vertical sectional view of the locking mechanism, taken on a line *y y*, Fig. 2, the parts being in the locked position. Fig. 4 represents a similar view, the parts being in the unlocked position and the operating-shaft pushed inward to elevate the shutter, part of the coin-chute being also indicated. Fig. 5 is a cross-sectional view of the locking device, taken on a line *x x*, Fig. 3, portions of the address-carrying disk and one of its rotatable supports being shown. Fig. 6 represents an inner face view of the locking mechanism with the coin-lever, the shutter, and the gear for operating the address device. Fig. 7 represents a view of the shutter-elevating device removed from the machine; Fig. 8, a view of the coin-lever, showing its locking-shoulder; and Fig. 9, a view of the shutter, more clearly showing its construction.

Similar numbers of reference designate corresponding parts throughout.

In the drawings, 10 and 11 indicate the front doors of a case having a back, a top, bottom, and two sides. In place of the double doors a single door may be used, if desired. On the face of the doors is mounted a series of numbered advertisements, and through the door 10, near one side, is formed the name-slot 12. In the frame of this door is likewise formed a horizontal coin-slot 13, connecting at its inner side with the downwardly-inclined coin-chute 14. Below the coin-chute is a circular opening in the side frame of the door, through which the knob 15 extends, the doors being provided with panes of glass, one of which covers the name-slot. To the back 16 of the case and within the same are secured spindles 17 17, on which the roller-bearings 18 18 are mounted, these bearings being of a length to allow free play to the beveled edge 19 of the disk 20, on which a paper or sheet of cardboard carrying a numbered series of addresses corresponding to the numbers of the advertisements on the doors are mounted in radial spaces, so that the warping of this edge or of

the disk will not cause the same to bind on the flanges of the bearings.

To the side 21 of the case and immediately back of the opening 14 in the door 10 is secured the metal frame 22, having a spring-socket 23 extending from its inner side 24, the inner end of this socket forming a bearing in axial alignment with a bearing in the front of the frame. A portion of this inner side is recessed to form a vertical face 25, serving as the front of the coin-chute, the rear side of this chute being formed by the plate 26. Through the lower portion of the vertical face 25 is a slot 27, through which the coin-lever is free to move, and at the upper edge is a narrow slot 25', through which the shutter-operating arm extends.

Journalled in the bearing of the spring-socket 23 and in the corresponding bearing in the front of the metallic frame 22 is the shaft 28, having the enlarged portion 29 and a collar 30, between which and the inner end of the socket is located the coiled spring 31, having a tendency to thrust the shaft and the knob 15 outward. On the inner end of the shaft is mounted the beveled gear 32, which engages the beveled edge 19 of the disk.

Pivoted to the ends of the case 22 immediately above the shaft is a plate 33, having a thickened edge 34, serving as a counterweight, and in the end portion of this edge is cut a step 35, which, when the plate 33 lies in its normal position, engages the upper portion of the collar 30 on the shaft 28 and prevents the inward movement of the shaft, and depending from the plate 33 is the curved coin-lever 36, which extends through the slot 27 entirely across the width of the coin-chute, preventing the passage of a coin therethrough without action on the coin-lever.

Near the front side of the frame 22 and above the plate 33 is pivoted the cross-bar 37, having the depending finger 38, bearing on the shaft 28 between the enlarged portion 29 and the collar 30. At the opposite end of this bar is the horizontal shutter-operating arm 39, which extends through the slot 25' in the face 25 and supports the shutter.

The shutter 40 is pivoted to the side 24 of the frame 22 and rests on the arm 39, being bent to accommodate itself to the location of the name-slot, that portion covering the name-slot being formed of two plates 41 and 42, between which the edge portion of the paper or other material on which the addresses are printed may move and be held in close proximity to the name-slot. In these plates are cut notches 43, through which the numbers of the addresses may be viewed when the shutter is in its normal position.

When it is desired to operate the mechanism, an advertisement is first selected from those displayed on the front of the machine and the number noted. The knob 15 is then rotated, causing the rotation of the disk 20 through the beveled gear 32 engaging the beveled edge of the disk. When a number cor-

responding to that of the advertisement appears at the notch 43 of the shutter, the rotation of the knob is stopped. A coin is now inserted through the coin-slot 13, and, dropping down through the coin-chute, rests against the curved end of the coin-lever, the additional weight of the coin depressing this end of the lever and causing the edge 34 of the plate 33 to be thrown upward, thus releasing the collar 30 of the shaft 28 from the step 35. At this point the edge 34 of the plate 33 strikes against the lower edge of the cross-bar 37 and the depression of the lever ceases, this being done to prevent the passing of the coin by the lever before the shutter is operated. The knob 15 is now pushed inward, the gear 32, being carried with the shaft 28, is thrown out of engagement with the beveled edge 19 of the disk 20, and the finger 38 is moved backward by the enlarged portion 29 and tips the bar 37, thus slightly elevating its lower edge. Space is now allowed for the further upward movement of the edge 34 of the plate 33 and the coin passes by the end of the coin-lever and falls into a proper receptacle. As the knob is pushed inward the free end of the shutter-operating arm moves upward and raises the free end of the shutter, opening the name-slot and exposing the address to view.

When the shutter is elevated, the shaft 28 must be pushed inward. In this position it is impossible to cause the rotation of the disk 20. By turning the knob in bringing the beveled gear back into engagement with the disk the spring 31 acts to throw the knob outward, and as the engagement takes place the plate 33 drops into position to lock the knob from inward movement.

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

1. In a coin-controlled advertising-machine, the combination with the case, of a series of long bearings mounted therein, a disk rotatable on said bearings and free to move longitudinally thereon, and a coin-controlled mechanism for operating the disk.

2. In a coin-controlled advertising-machine, the combination with a coin-chute having an opening in its side as distinguished from its edge, of the coin-lever 36 pivoted parallel to the plane in which the coin is guided by the chute and extending through the opening in the side of the chute, a rotatable shaft reciprocally mounted adjacent to the coin-lever, and means, operated by the coin-lever, adapted to release said shaft to allow of its reciprocation.

3. In a coin-controlled advertising-machine, the combination with a pivoted shutter comprising the member 40 having the parallel plates 41 and 42 extending therefrom, of a coin-controlled device for operating the shutter.

4. In a coin-controlled advertising-machine, the combination with a metallic frame, a reciprocally moving shaft journalled in bearings therein having a knob at its outer end, and

an enlarged shoulder, a collar on the shaft, and a spring for exerting a pressure on the shaft toward the knob, a plate, pivoted above the shaft and extending in a direction at right angles thereto, having a step for engaging the collar and a depending coin-lever, a cross-bar pivoted above the free edge of said plate and adapted to engage the same when it is partially thrown upward, said cross-bar being furnished with a depending finger to be engaged by the shoulder of the shaft and with an arm extending upward from said bar, and a shutter pivotally supported and adapted to be elevated by the arm, of an address-carrying device, and means operated by the shaft for moving the same.

5. In a coin-controlled advertising-machine, the combination with a suitable case having a name-slot, a coin-chute and a circular opening in the front beneath the coin-slot, a series of numbered advertisements displayed on the face of the machine, and an address-carrying device contained within the case and adapted to be operated by a rotatable shaft, of the frame 22, secured within the case, having the

spring-socket 23, the back 24 furnished with the recessed portion 25 provided with the slots 25' and 27, the shaft 28, having the knob 15 and the shoulder 29, journaled in said frame, the collar 30 on the shaft, the coiled-spring 31, surrounding the shaft, bearing in the spring-socket and on said collar, a device carried by the shaft for engaging the address-carrying device, the plate pivoted above the shaft and having the coin-lever 36 and the step 35 for engaging the upper portion of the collar, the cross-bar 37, pivoted above the free edge of the plate 33, having the finger 38 for engaging the shoulder 29, and the arm 39 extending through the slot 25', and the shutter 40 pivoted to the side 24 of the frame 22 and adapted to be operated by the arm 39, as and for the purpose described.

In witness whereof I have hereunto set my hand.

HORACE A. MANLEY.

Witnesses:

WILLIAM N. AMBLER,
WINFIELD S. SLOCUM.