

(No Model.)

3 Sheets—Sheet 1.

J. S. BARCUS,  
COIN CONTROLLED APPARATUS FOR ADVERTISING AND EDUCATIONAL  
SYSTEMS.

No. 538,494.

Patented Apr. 30, 1895.

Fig. 1.

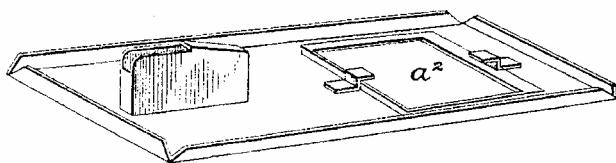
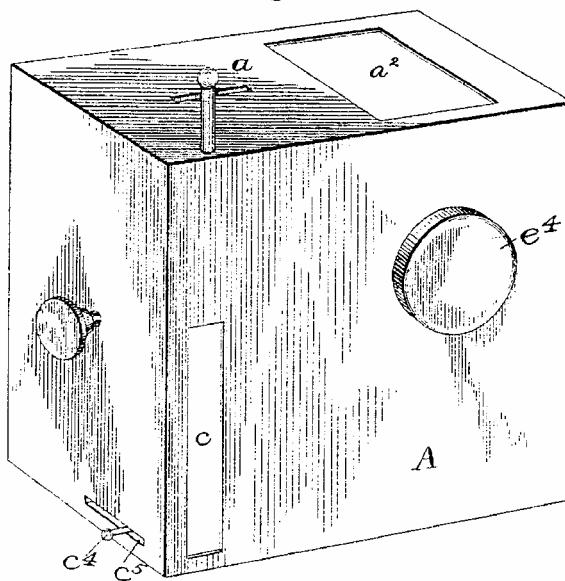
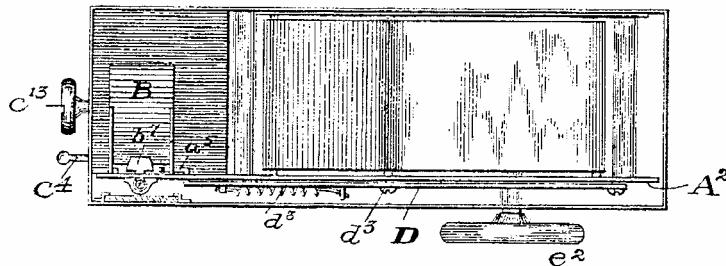


Fig. 2.



WITNESSES

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(No Model.)

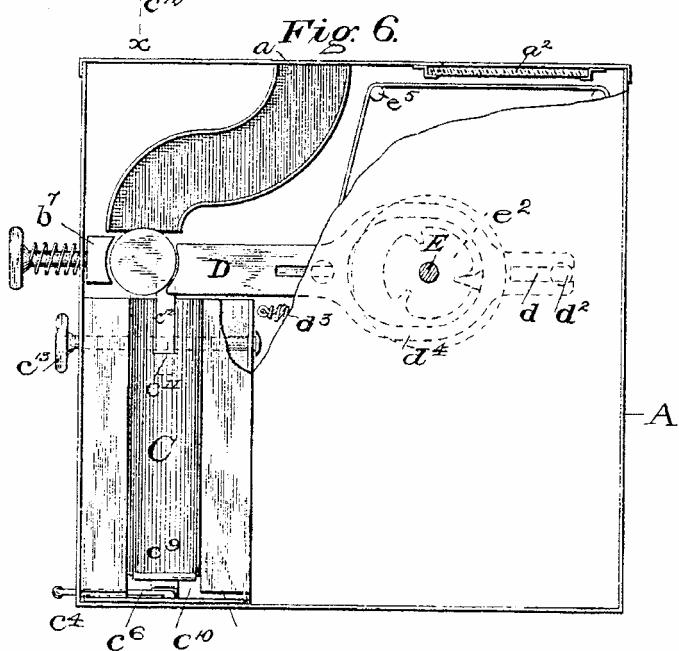
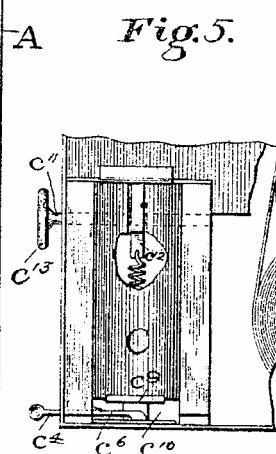
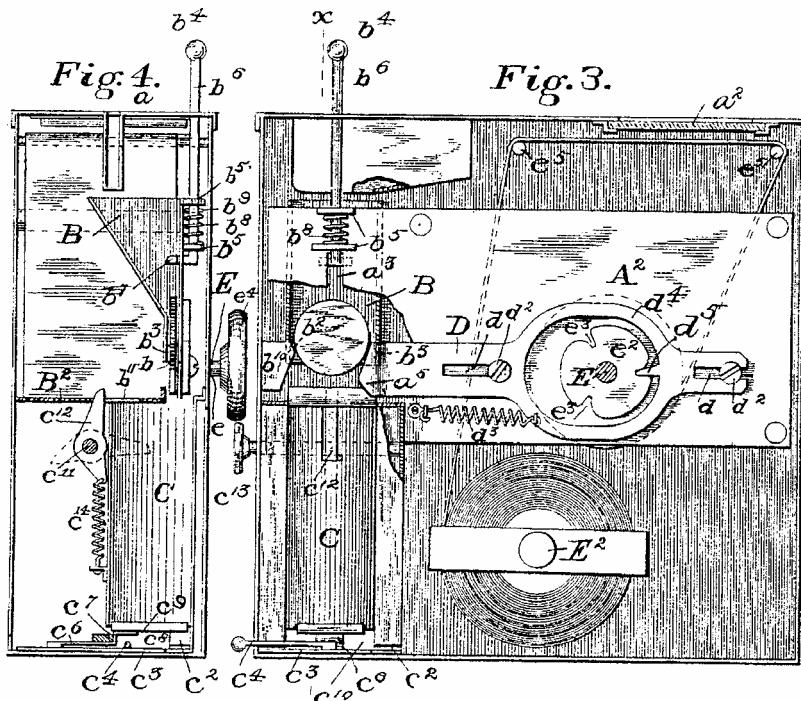
3 Sheets—Sheet 2.

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COIN CONTROLLED APPARATUS FOR ADVERTISING AND EDUCATIONAL SYSTEMS.

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3 Sheets—Sheet 3.

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COIN CONTROLLED APPARATUS FOR ADVERTISING AND EDUCATIONAL SYSTEMS.

No. 538,494.

Fig. 7

Patented Apr. 30, 1895.

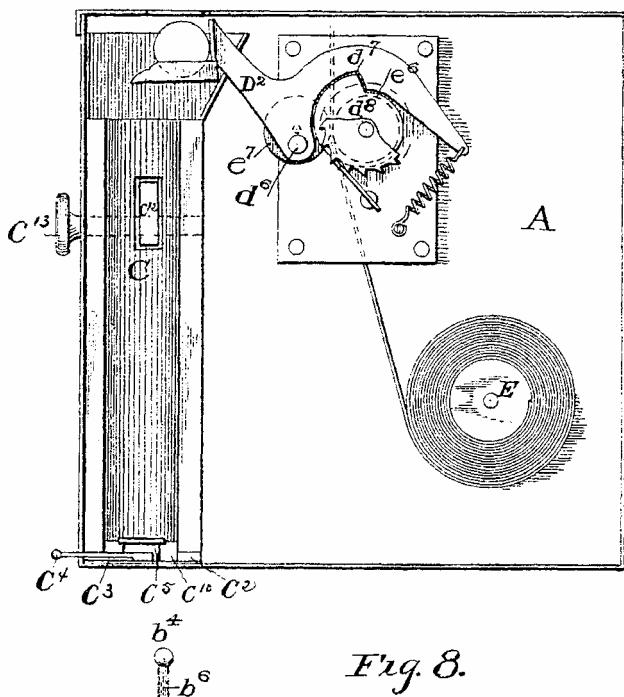
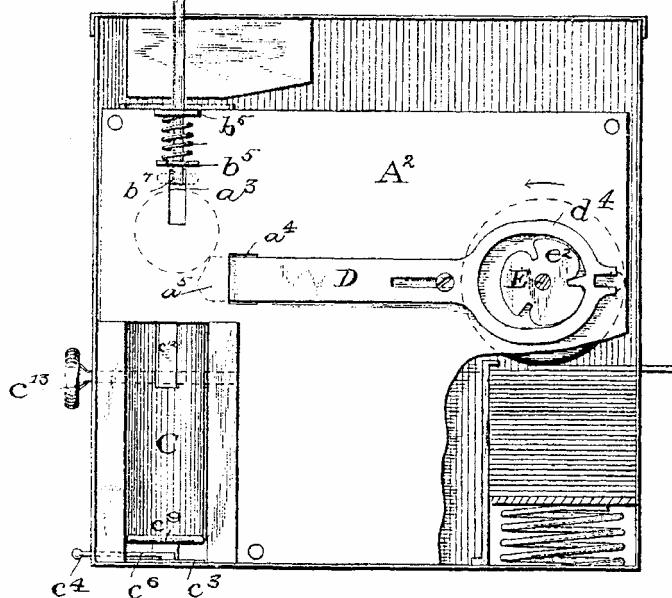


Fig. 8.



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# UNITED STATES PATENT OFFICE.

JAMES S. BARCUS, OF CHICAGO, ILLINOIS.

## COIN-CONTROLLED APPARATUS FOR ADVERTISING AND EDUCATIONAL SYSTEMS.

SPECIFICATION forming part of Letters Patent No. 538,494, dated April 30, 1895.

Application filed November 30, 1894. Serial No. 530,440. (No model.)

To all whom it may concern:

Be it known that I, JAMES S. BARCUS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Advertising and Educational Systems by Coin-Controlled 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.

This invention relates to advertising and educational systems by coin-controlled apparatus.

The object of the invention is to present an attractive method by which, in connection with certain apparatus, particularly, a novel kind of coin-controlled apparatus of my invention, a habit of systematic and methodical investigation and acquisition of knowledge may be cultivated by and together with regular collection and saving of money; that is to say, a person to gain particular knowledge or to place himself in line to acquire a piece of information for periodical storing away in his mind has only to pay himself,—the sum acquired from many such storings then to be withdrawn for application to some particular, or to any desired purpose; or money may be stored up to certain installments induced by presentation of an object or of objects for the insertion or insertions.

The object is, furthermore, by the method employed, to advertise some particular business, or purpose.

The invention consists in the combination with a locked coin-receptacle, from which the coin can only be removed after the accumulation in it of a certain installment of money, of a device indicative of the accumulation, or presenting matter as the result of the insertion of coin.

The invention may be carried into effect in many different ways; but I prefer to carry it into effect by means of apparatus to be operated by the insertion of money, which is then held as in bank, though not subject to withdrawal until, perhaps, a certain sum is collected, the apparatus, upon the insertion of the money, then displaying or being placed in condition to make display possible, of some substance, object, or piece of information,

some question to be answered, some proverb, some maxim, witticism, or other attractive and useful matter. In this connection and in connection with other uses of the device, advertisements may be placed in such shape as to come to view when the coin is dropped in.

Another use to which the invention may be applied is that of collection of money for payments on the installment plan, as for goods delivered. This is pleasantly and instructively applicable in payment for books in installments.

In the accompanying drawings I have illustrated novel apparatus, in various forms, by which my invention may be carried into effect.

In the drawings, which are in the nature of mere examples, Figure 1 is a view in perspective displaying the exterior of a casing of a coin-controlled apparatus embodying the essential features of my invention. Fig. 2 is a view displaying in plan the casing and a portion of its contained mechanism and in inverted perspective the cover or lid detached from the casing. Fig. 3 is a view in front elevation, partly in section, with the front side of the casing removed, displaying the internal mechanism of the apparatus. Fig. 4 is a view in vertical cross-section, taken on the line x-x, Fig. 3, showing more clearly the connection between the coin chute and the coin-receptacle and also the push-rod or plunger for forcing the coins from the chute to a position to be deposited within the receptacle. Fig. 5 is a view in vertical cross-section through the coin-receptacle, showing more clearly the connection between the coin-depressing arm and its retracting-spring. Fig. 6 is a view in front elevation, a portion of the front of the casing being broken away, showing a modified form of apparatus, the plunger in this instance being located at the side instead of at the top of the casing. Fig. 7 is a similar view to Fig. 6, showing a further modification of apparatus, the plunger in this instance being omitted and a spring-retracted lever operated by the weight of a coin being employed.

Fig. 8 is a similar view to Figs. 6 and 7, showing a stillfurther modification of the apparatus, the web of paper shown in the other figures being omitted and a receptacle containing a number of cards or disks bearing information being employed in lieu thereof.

away from the stop and extending the space between the stop and the end of the latch, until the coin falls through into the coin-receptacle, C. This occurs when about the highest portion of the rising cam-face has been brought into contact with the pin, and, thereafter, upon turning the cam-wheel farther, the pin falls into the next notch, the latch is retracted, and the wheel cannot again be turned until the pin is again withdrawn from a notch by movement of the latch, by insertion of a coin.

In order that the coins falling into the coin-receptacle may always take position upon their sides, that is to say, lie flat therein, it is necessary that the receptacle should not be so large in cross diameter as to permit a coin to lodge on edge between the walls and other coins lying flat. The coins will be received into this receptacle until the same is full, or until a predetermined sum has been accumulated. The point, then, will be to withdraw the amount; and, it being desirable that it shall not be possible to remove the coins without destruction of or injury to the apparatus, until the receptacle is full, or until a certain desired sum has been accumulated, which may be recognized from a sight-opening, c, properly provided with glass or other transparent substance, the coins, then, in requisite number, are made means, in part, of their removal.

In the bottom of the casing, at the coin-receptacle, is an opening, c<sup>2</sup>. Upon the bottom of the casing, within, below the coin receptacle, and free to slide forward and backward, over and off the opening, is a plate, c<sup>3</sup> having a short bar, c<sup>4</sup>, extending from the sides of the slide, out through a horizontal slot, c<sup>5</sup>, in the end of the casing. Fixed upon the upper face of the slide, and extending free from the back forward, is a spring, c<sup>6</sup>, bent upward at a right-angle forming an offset, c<sup>7</sup>, which may be reinforced as shown, and then horizontally forward at c<sup>8</sup>. Upon this last part of the spring, which is higher than the rest and capable of being pressed down and of springing back, is a disk, c<sup>9</sup>. This disk will then be immediately over that portion of the slide that forms the bottom of the receptacle when the opening is closed and is of about the size and shape of the coin-receptacle, forming a false bottom thereto. It will be observed that the wall of the coin-receptacle at the back and sides does not extend to the bottom of the casing, so that a horizontal cut, c<sup>10</sup>, through these walls is left. When the slide covers the bottom, the disk will be projecting upward into the coin-receptacle, forming a false bottom, as before said, and the rear of the disk will present a shoulder, preventing the slide from being pulled from over the opening in the bottom; so that unless the disk can be depressed to lower the end of the spring within the receptacle, and, with it, the shoulder, to allow it to pass under the cut, the bottom cannot be opened.

At the top of the coin-receptacle, just to the rear thereof, lying longitudinally of the casing, is a rod, c<sup>11</sup>, journaled in the end of the casing and in a short vertical partition within and extending downward from the transverse partition, B<sup>2</sup>. This rod has fixed upon it, at a position in its length, about central of the rear of the coin-receptacle, a rigid arm, c<sup>12</sup>, and is provided with a suitable knob or milled wheel, c<sup>13</sup>, to operate it. At the top and about centrally, the coin-receptacle has a vertical incut of the width of this arm and extending downward a sufficient distance to permit of the arm being rocked to a position to contact with the coins in the receptacle and about centrally, over the arm, the partition, B<sup>2</sup>, has a horizontal cut, b<sup>11</sup>. The arm is provided with a spiral spring, c<sup>14</sup>, having one end fixed to its back or lower portion, and the other to any portion of the apparatus, as to the rear outside of the coin-receptacle, and so arranged with reference to the arm that it will, normally, be in a vertical position at the rear outside of the coin-receptacle, with its lower portion taking against the rear of the coin-receptacle, which then acts as a stop thereto. When, now, coins have been dropped into the receptacle, so that the surface of the top one will be somewhat above the bottom of the vertical cut in the upper part of the receptacle, the rod may be turned, forcing the upper part of the arm down upon the coins and thus depressing the disk, whereupon the bottom may be slid by the bar to open the receptacle.

The object, as stated above, of stopping the movement of the roller, at intervals, by the device which may be called a latch-lock, is, that the matter upon the web of fabric or paper may not be read, or knowledge of such matter be gained, until a coin shall have been inserted into the apparatus; but, if the slit through which the coin is to be inserted should be directly over the hopper, the latch might be moved to permit turning of the roll, without insertion of a coin by the insertion of a blade or the movement of the latch by a wire. To guard against this, the slit is not placed directly over the hopper, and the same is provided with a chute, which opens at its lower end over the hopper. Instead of this chute being in the form shown in Figs. 2, 3 and 4, of the drawings, it may be in the form of an ogee curve, as shown in Fig. 6; and, instead of the plunger being set vertically, as shown in Figs. 2, 3 and 4, it may be set horizontally, as shown in Fig. 6. Hereby, also, the hopper is dispensed with. Furthermore, as shown in this figure, and, by preference, the inner wall or plate A<sup>2</sup> may be dispensed with and the latch-lock device be set directly on the inner face of the front of the casing.

Instead of exposing the web to view under the opening into the top of the cover and then winding it on a take-up roll, the same may be passed between draw-rolls, e<sup>6</sup>; e<sup>7</sup>, and be fed out through the top of the casing, as

