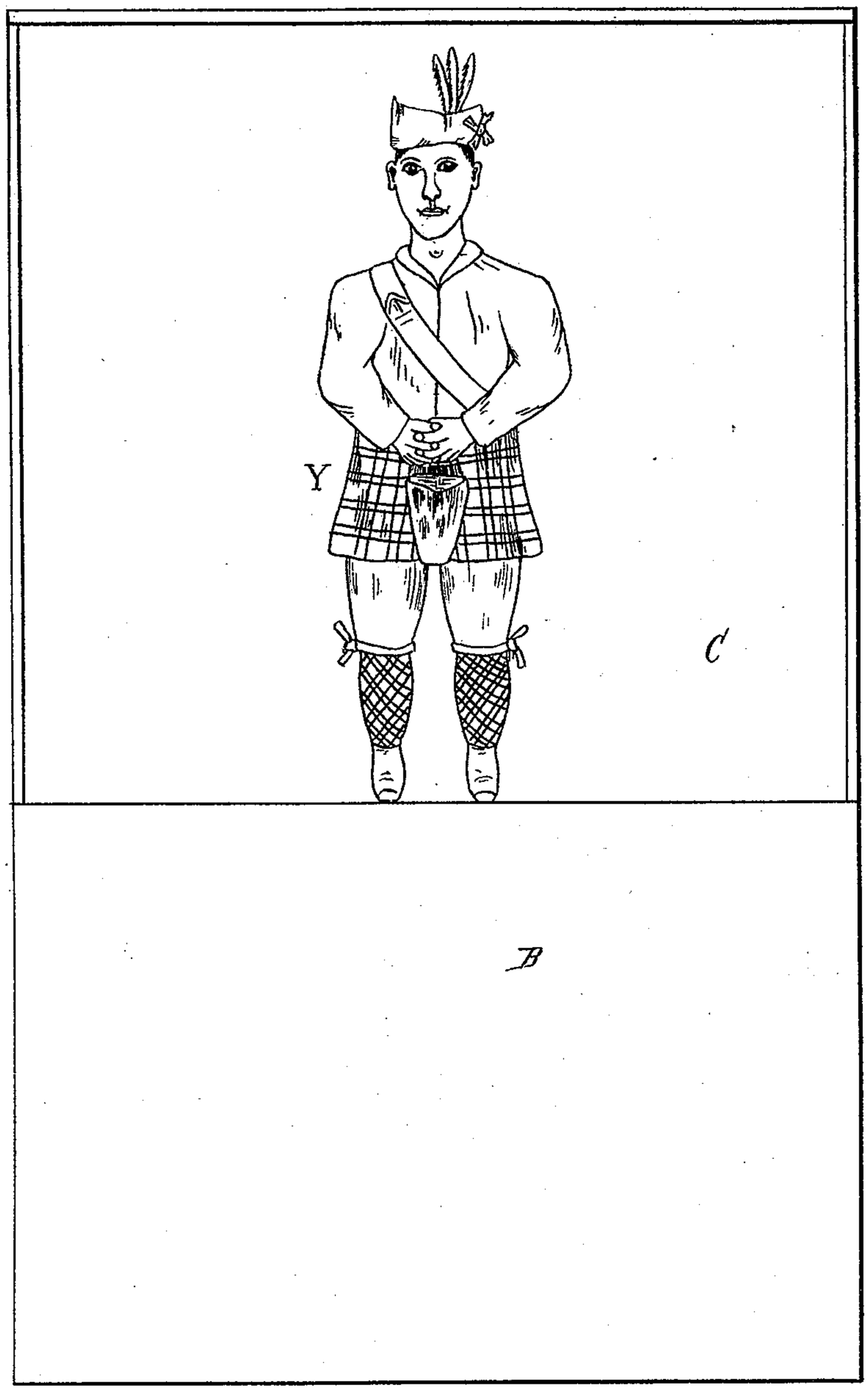
(No Model.) 2 Sheets—Sheet 1.

# A. M. PIERCE.

## AUTOMATON.

No. 464,268. Patented Dec. 1, 1891.

Fig. 1.




Witnesses:
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C. Holmes.

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(No Model.) 2 Sheets—Sheet 2.

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## AUTOMATON.

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FIG. 2.

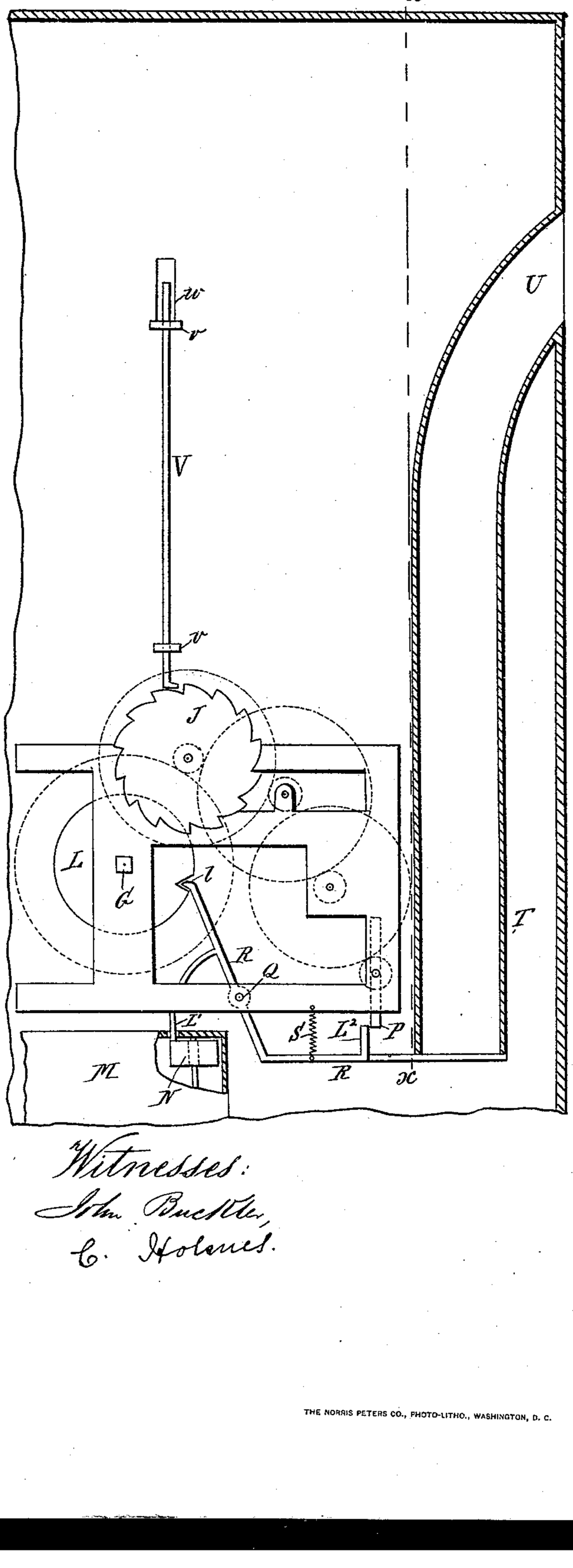
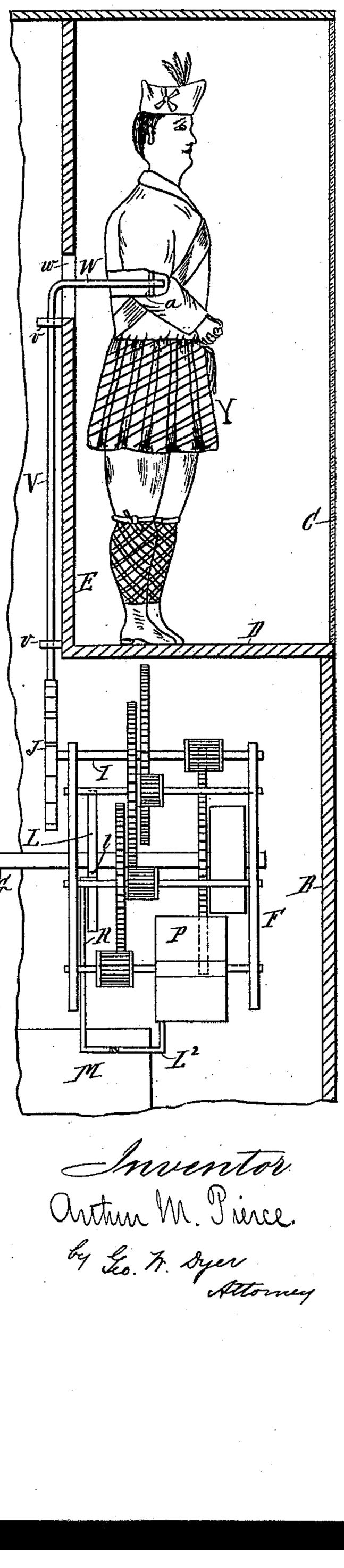



FIG. 3.




Witnesses:
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C. Holmes.

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Attorney

# UNITED STATES PATENT OFFICE.

ARTHUR M. PIERCE, OF BROOKLYN, NEW YORK.

## AUTOMATON.

SPECIFICATION forming part of Letters Patent No. 464,268, dated December 1, 1891.

Application filed August 17, 1888. Renewed May 18, 1891. Serial No. 393,072. (No model.)

*To all whom it may concern:*

Be it known that I, ARTHUR M. PIERCE, a citizen of the United States, and a resident of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Coin-Operated Automatons, of which the following is a specification.

My invention relates especially to devices to be set in motion by the introduction of a coin or token, and has for its object the provision of an automaton designed to amuse.

To attain the desired end my invention consists, essentially, in a figure supported upon a concealed rod connected to a motor, said motor being provided with a tripping device whereby the mechanism may be started by the weight of a coin or token.

My invention also involves certain other novel and useful combinations or arrangements of parts or peculiarities of construction and operation, all of which will be hereinafter first fully described, and then pointed out in the claims.

In the drawings, Figure 1 is a front elevation of my automaton. Fig. 2 is a rear view in elevation, the coin-chute and casing being shown in section. Fig. 3 is a sectional view of the casing at line *x x* of Fig. 2, showing a side elevation of the motor and actuating mechanism.

Like letters of reference, wherever they occur, indicate corresponding parts in all the figures.

A is the casing of the device, provided with a base B, surmounted by a glass front C.

D is a horizontal platform, and E is a false back to the casing.

F is a motor of any approved construction, provided with a key-post G, extending through the back H of the casing.

Mounted upon shaft I of the motor is a toothed wheel J, and upon shaft K a disk L, having a notch *l* therein.

M is a music-box, N representing the fan-wheel of the motor therein.

P is the fan of the motor F.

Pivoted at Q is a rod R, the upper end whereof is designed to enter a notch *l* in disk L. Rod R is provided with two arms, L′ arranged to strike fan N, and $L^2$ to strike fan P when the device is in the position indicated in Fig. 2.

S is a spring engaging with rod R, holding it in position. The lower end of rod R extends beneath a coin-chute T, having a mouth U in the side of casing A.

V is a vertical rod playing in bearings *v*, the lower end resting on toothed wheel J. The upper extremity has an arm W, which extends through a slot *w* in the false back E and enters the body of a figure Y, supporting said body upon a vertical pin *a*.

When constructed and arranged as above described, my automaton acts as follows: A coin being placed in the chute T falls upon the rod R, tipping it upon the pivot Q, releasing the fans N and P, allowing the music-box and actuating-motor to operate. The upper extremity of rod R rests upon the periphery of the disk L and rides thereon during an entire revolution, when it falls into the notch *l*, permitting the arms L′ and $L^2$ to engage with the fans N and P, stopping the operation of the music-box and the motor until again relieved, as above described. As the wheel J revolves it raises rod V and allows it to fall as each tooth passes, thus imparting a vertical movement to the figure Y, and as said figure is supported near its vertical axial center and upon a vertical pivot the figure will turn slightly to the right and left horizontally as it moves upward and downward.

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

1. In a coin-operated automaton, the dancing figure Y, mounted on a vertical pin *a* so as to partake of an independent horizontal movement, and mechanism for actuating said figure, consisting of a motor having a toothed wheel J, a rod V, resting on and reciprocated by said toothed wheel, a coin-operated lever R, controlling said motor, and a coin-chute leading to said lever, substantially as set forth.

2. In an automaton of the character herein specified, the combination, with a motor car-

rying a toothed wheel J, of a vertically-movable rod V, resting loosely on the periphery of said toothed wheel J and having a horizontal arm W, whereon is pivoted a figure Y, substantially as shown and described.

3. The combination, with a motor carrying a toothed wheel J, of a vertically-movable rod V, bearing loosely on the periphery of said toothed wheel and having a horizontal arm W, whereon is pivoted a figure Y by means of a vertical pin *a*, passing through said arm and loosely engaging with the body of said figure, said body being horizontally slotted to permit an axial movement on the pin *a*, substantially as shown and described.

4. A device of the character herein specified, comprising a motor, a figure connected with said motor by a supporting-rod, a music-box, a tripping device controlling the movement of the music-box and the motor, and a coin-chute leading to the tripping device, the whole arranged substantially as shown and described.

5. A device of the character herein specified, in which is comprised a motor having a notched disk L and fan P, a pivoted rod R, provided with arms L′ and $L^2$, springs S, the fan N, and a music-box M, substantially as shown and described.

6. A coin-operated automaton in which is comprised a movable figure operated by a motor, a music-box, and a lever controlling the movements of said motor and said music-box, substantially as set forth.

In testimony that I claim the foregoing I hereunto set my hand this 10th day of August, 1888.

ARTHUR M. PIERCE.

Witnesses:
C. HOLMES,
G. F. PIERCE.