

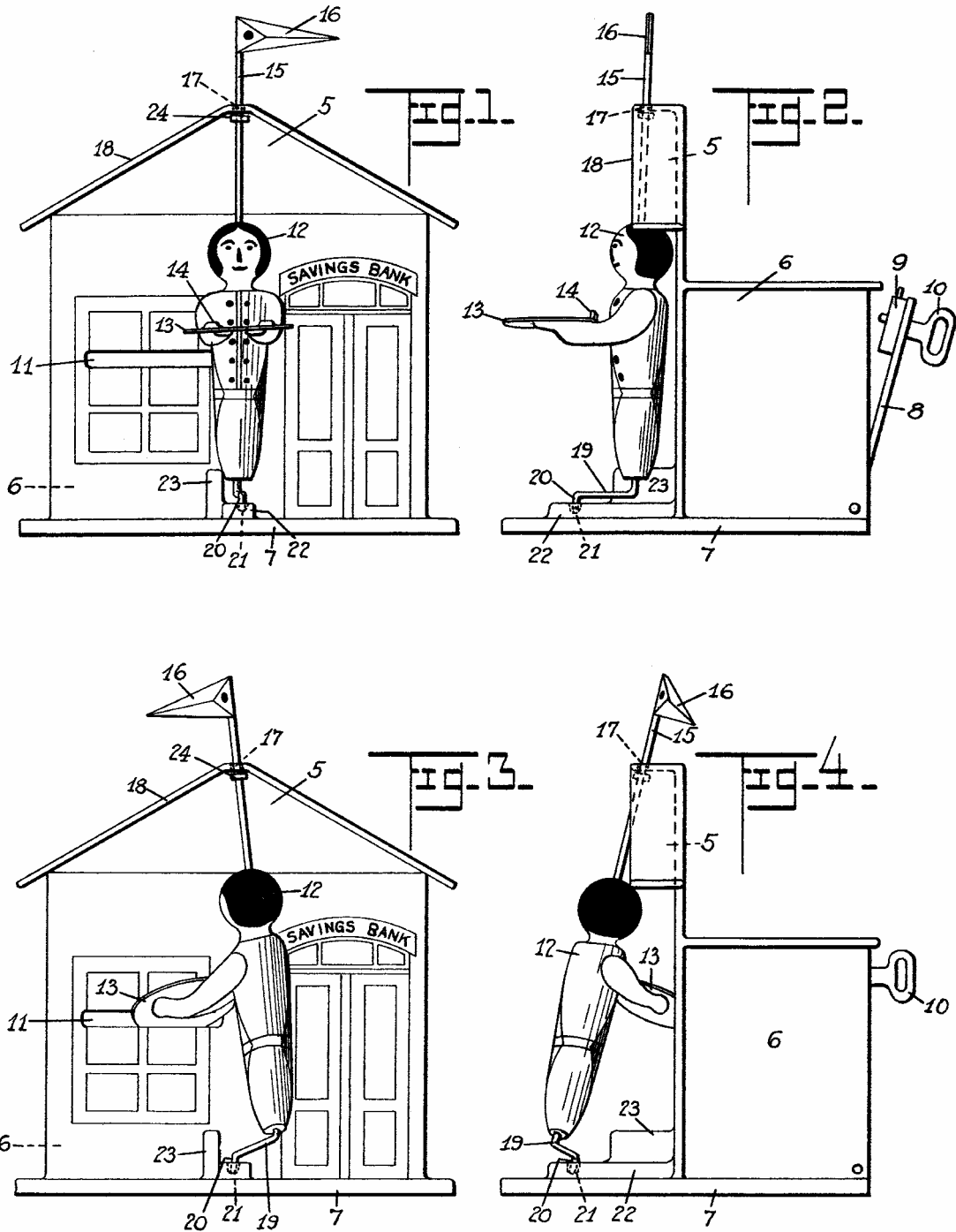
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TOY BANK

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TOY BANK

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This invention relates to toy delivery means, and the simulation of natural movements of figures, by gravitational actuation.

As an example illustrating this invention, I herein describe and show a toy bank. A figure is positioned in front of said bank, and when a coin is deposited on said figure or on means held thereby, it turns around, and deposits the coin in a bank; it then immediately returns to the receiving position.

While the above is the prime object of this invention, there are other objects; for instance, to provide a very simple and rugged mechanism which still is so delicate as to perform the depositing operation, faster and slower, according to whether a larger or smaller coin is used for its actuation.

These and other objects will be more clearly understood from the following description and accompanying drawing, in which, Fig. 1 represents a front view of a device of my invention in a receiving position.

Fig. 2 shows a corresponding side view, the deposit box being open.

Fig. 3 shows my device in a depositing position, in a view similar to that of Fig. 1.

Fig. 4 shows a side view corresponding to the showing of Fig. 3; the deposit box is here shown closed.

Similar numerals refer to similar parts throughout the various views.

The drawing shows an elevation 5 and a deposit box 6 extending backwards therefrom, both of these parts arising from a common base 7. The deposit box 6 is provided with a door 8, a lock 9 and a key 10. A slot 11 extends through the elevation 5 into the deposit box 6. It is substantially horizontally disposed in convenient reach of a toy figure standing in front of the elevation and it is proportioned so as conveniently to receive the ordinarily used coins.

The toy figure 12 holds a tray 13 on the back of which is arranged stop means 14 against which rests the coin deposited on the tray. A rod 15 extends upwardly from the figure 12 and is provided with a flag 16 at its upper end, it is rotatably supported in a bearing 17 in the roof 18 frontwardly extending from the elevation 5. A rod 19 extends from the

bottom of the figure 12, and its offset free end 20 rotatably rests in a hole 21, in a raised portion 22 of the base 7.

When my device is in its normal upright position, the hole 21 is frontwardly disposed in respect to bearing 17, and also shifted to a very slight degree to the right from said bearing (Fig. 1) so that the toy figure, which is unbalancedly suspended on rods 15 and 20 between bearings 17 and hole 21, gravitationally rests against a lug 23 arising from base 7. The device is balanced in such a manner that, if the lug 23 were removed, the figure would swing through an acute angle in counter clockwise direction to a point of rest, i. e., fully balanced position, when the device is viewed from the top.

When the device is in the position of Figs. 1 and 2 and a coin is deposited on tray 13, the center of gravity of the rotatable system is thrown from a point behind a line connecting bearing 17 and hole 21 to a point in front thereof. The weight of the coin will therefore rotate the device in clockwise direction, the figure will swing the tray towards slot 11, the tray striking the elevation 5 so that the figure and tray are brought to a stop whereas the momentum imparted to the coin will cause said coin to slide off the tray into the box 6.

A collar 24 is provided on rod 15 below bearing 17 in roof 18 which acts as thrust and keeps end 20 rotatably inserted in hole 21. Tray 13 is shown at an incline in Fig. 1. The angle of this incline, the smoothness of the tray, the incline of the axis of rotation, the frictional resistance during rotation, the unbalancing of weights and the respective lever arms are subject to various adjustments in order to bring about discharge of the coin from the tray with or without interception of the rotation of the figure, and at different angular positions of the rotating figure.

While I have shown and described my invention with some degree of particularity, it will be realized that other modifications and changes may be resorted to under special conditions. I therefore do not wish to be limited and restricted to the exact details shown and described, but reserve the right to make such changes and modifications as may fairly fall

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within the scope of the subject matter now being claimed.

I claim:

1. In combination with a toy bank, a figure in front of said bank, means revolvably supporting said figure on said bank substantially above and horizontally offset below said figure, a coin tray carried by said figure, a stop against which said figure normally rests, a coin deposited on said tray being swung into said bank, when said figure is revolved away from its position of rest against said stop by the weight of said coin deposited on said tray.

2. In combination with a toy bank, an erect figure in front of said bank, means revolvably supporting said figure on said bank substantially above and horizontally offset below said figure, a coin tray carried by said figure, a stop against which said figure normally rests due to gravity, a coin deposited on said tray being swung into said bank, when said figure is swung by the weight of said coin on said tray away from said stop and out of an erect into an inclined position.

3. In combination with a toy bank, a figure in front of said bank, means revolvably supporting said figure on said bank substantially above and horizontally offset below said figure, a coin tray carried by said figure, a stop against which said figure normally rests in a

substantially erect position due to its weight, a coin deposited on said tray being swung towards said bank and slid from said tray thereinto, when said figure is swung by the weight of said coin on said tray away from said stop into an inclined position.

4. In a toy, a figure, an arm extending substantially vertically up from the upper end of said figure, an arm extending substantially horizontally from the lower end of said figure, journals supporting said arms near their free ends along a common axis of rotation, and weight receiving means extending from said figure, the center of gravity of the figure being angularly shifted in respect to said axis when a weight is deposited on said receiving means, and the figure then revolving around said axis into a tilted position.

5. In a toy, a frame comprising a vertical and a horizontal member connected at one end to each other, means journaling the free ends of said members along an inclined axis, a tray extending from said frame to the opposite side of said axis, and adapted to carry a weight, said frame gravitationally tending to revolve between two angularly displaced positions when a weight is deposited on or removed from said tray, and stops arresting the revolution of said frame before the one or the other position is reached.

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