C. WHITNEY.

TOY BANK.

APPLICATION FILED DEC. 11, 1913.

1,108,046.

Patented Aug. 18, 1914.

2 SHEETS—SHEET 1.

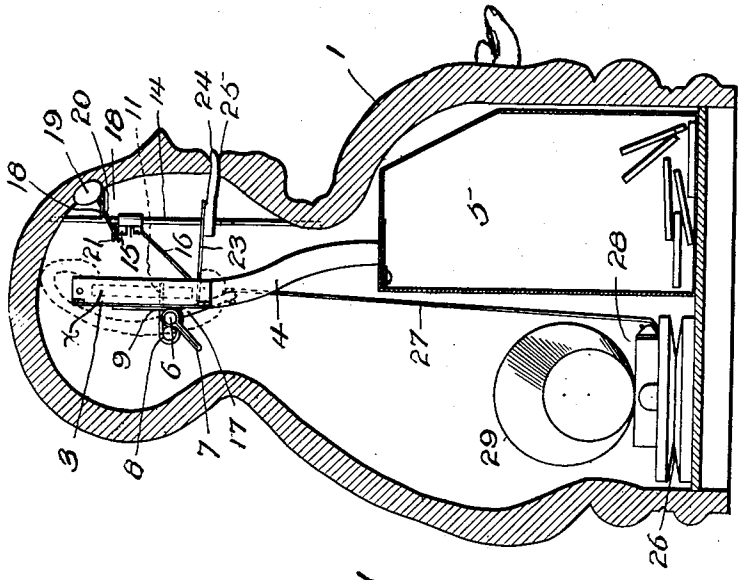


FIG. 2.

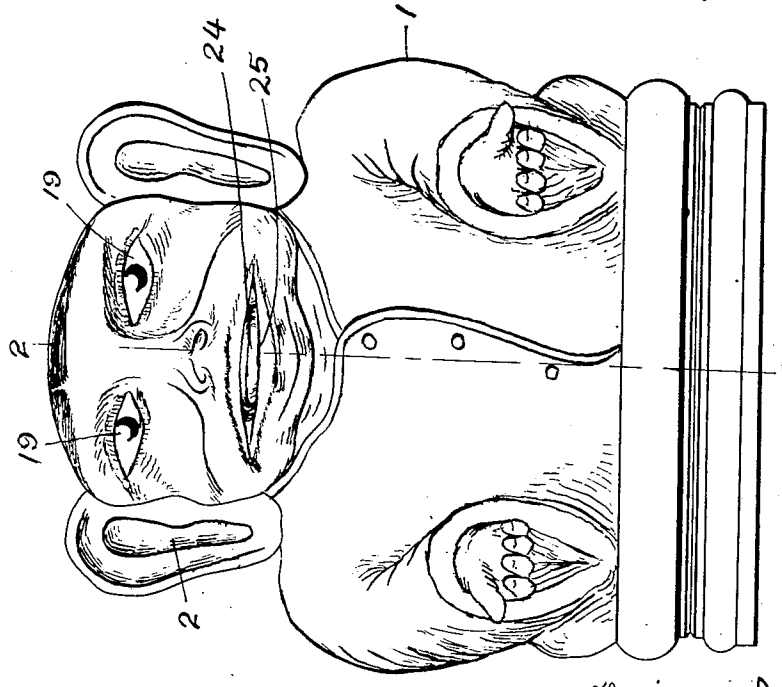


FIG. 1.

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2 SHEETS—SHEET 2.

FIG. 5.

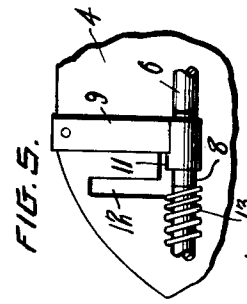


FIG. 6.

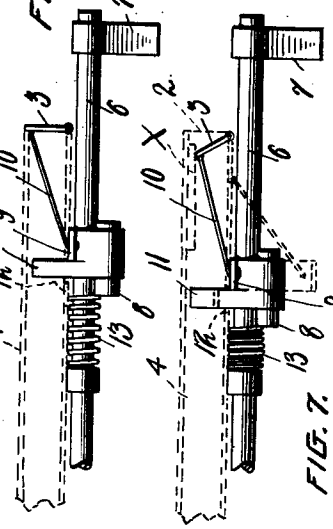


FIG. 4.

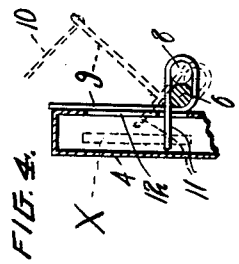


FIG. 7.

FIG. 8.

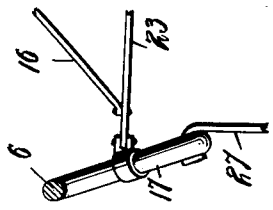
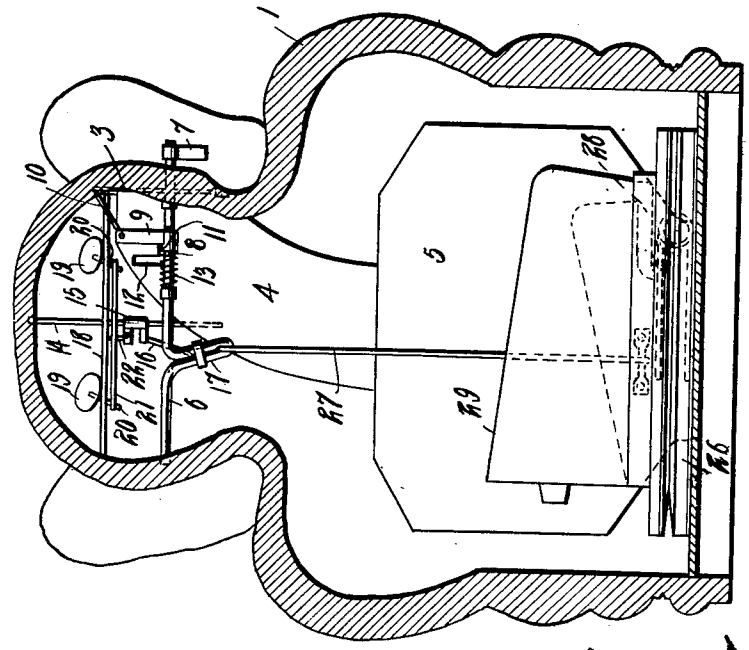


FIG. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

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TOY BANK.

1,108,046. Specification of Letters Patent. Patented Aug. 18, 1914.

Application filed December 11, 1913. Serial No. 805,923.

To all whom it may concern:

Be it known that I, CLAIRE WHITNEY, citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Toy Banks; 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.

My invention consists of certain improvements in toy banks or money boxes, which have the form of a grotesque figure. The head and upper portion of the bank has the configuration of a Chinese idol and the head has an opening in one of its ears through which the coins are introduced into the cavity of the hollow figure.

One of the objects of my invention is to provide a construction of the character to be used as a savings bank, into which the coins are introduced in a novel manner.

A further object of my invention is to provide the figure with movable eyes and tongue and with a sound producing device.

A still further object of my invention is to provide a device of this class in which the insertion of a coin locks certain mechanism, which controls the eyes, tongue and the sound producing device and as said lock is released by depressing a lever on the exterior of the figure, the coin is dropped into the coin receptacle, the eyes are caused to roll, the tongue protrudes from the mouth and a sound is emitted from the sound producing device.

With these and other objects in view, my invention consists in the construction hereinafter described and pointed out in the claims and shown in the accompanying drawings, in which—

Figure 1 is a front elevation of my improved toy bank. Fig. 2 is a vertical sectional view of the casing and the coin receptacle taken on line 2—2 of Fig. 1, the remainder of the internal mechanism being shown in elevation. Fig. 3 is a vertical sectional view of the casing and showing a rear elevation of the internal mechanism. Fig. 4 is a vertical sectional view of a detail of the coin chute lock. Fig. 5 is front view of the same. Fig. 6 is a top plan of a detail showing the coin chute lock and its connection with the door, the door being shown in closed position and the coin chute being shown in dotted lines. Fig. 7 is a similar view showing in full lines the door partly opened by a coin and in dotted lines the door swung open to its full extent and the coin chute lock in opened position to allow the coin to drop down the chute. Fig. 8 is a detail showing the connection of the eye and tongue links to the operating crank.

1 designates the casing of my improved toy bank which may be made of any suitable material, and preferably by molding or casting, and is preferably shaped in the form shown in the drawings. The right ear of the figure is provided with an oblong opening 2, which is closed from the inside by a hinged door 3, and through which coins X may be passed to a coin chute 4, which extends from the right ear to a coin receptacle 5, located near the lower end of said figure. A rock shaft 6, extends transversely of the interior of said casing 1, is pivotally mounted in said casing and one of its ends terminates in an operating lever 7. Mounted to slide on said shaft 6 but prevented from turning thereon by a key 8, is a bell crank lever 9, one arm of which is connected by a link 10 with the hinged door 3. The other arm 11 of the bell crank lever 9 is adapted to travel in an L-shaped slot 12 in the coin chute, for a purpose hereinafter described. A coil spring 13 is also mounted on the shaft 6 and is adapted to force the bell crank lever 9 toward the right ear. Pivotally mounted in the casing and to one side of said shaft 6 is a vertical rod 14 which is provided with a rigidly connected double crank 15, one arm of which is connected by a link 16 to a downwardly extending arm 17 on the shaft 6, as best shown in Fig. 8. A horizontal rod 18 is rigidly mounted in said casing and eyes 19 have pins 20 which pass through apertures (not shown) in the rod 18. The lower ends

of the pins 20 are pivotally connected to a plate 21 which in turn is pivotally connected to the double crank 15 by a crank pin 22, which passes through an aperture (not shown) in said plate 21. It will be seen from the foregoing that when the rod 14 is turned in its bearings, the pin 22 will move the plate 21 and rock the eyes. Connected also to the downwardly extending arm 17 of the shaft 6 is a horizontal rod 23 which is rigidly connected to the tongue 24 and said tongue slides in the mouth 25. It may be stated at this point that the arm 17 not only extends downwardly but also diagonally in two directions for the purpose of operating the various elements heretofore and hereinafter described.

Secured to the bottom of the casing 1 and to one side of the coin receptacle 5 is a bellows 26, the top part of which is connected by a rod 27 with the arm 17 of the shaft 6. Mounted on top of said bellows is a reed 28, which is operated by said bellows and throws its sound into a funnel or horn 29, which is also mounted on the top of the bellows. A door, not shown, is provided in the coin receptacle 5 through which the coins may be extracted from the bank.

In the operation of my device, a coin is inserted into the opening 2 in the right ear of the figure and as said coin is introduced the hinged door 3 is swung partly open, thereby forcing the link 10 and the bell crank lever 9 inwardly against the tension of the spring 13. When the free end of the bell crank lever registers with the vertical portion of the L-shaped slot, the lever 7 is turned by the operator, which swings the bell crank lever through an angle of less than forty-five degrees, as shown in Figs. 4 and 7, to throw the free end of the bell crank up into the vertical portion of the slot 12 of the coin chute, and allow the coin to drop into the coin receptacle. As the lever 7 is turned, the door is caused to open to its full extent through the link 10, thus allowing the bell crank to be turned. When the shaft 6 is turned, it also causes the arm 17, through the medium of the rod 27, to operate the reed. The turning of the arm 17 also forces the tongue 24 outwardly and operates the double crank 15 to shift the eyes. After the coin has dropped into the coin receptacle 5, the lever 7 is turned in a reverse direction, which causes the free end of the bell crank to move downwardly in the vertical portion of the slot 12 until it reaches the horizontal portion of said slot, when the spring 13 will force said bell crank toward the right and close the door 3.

It will be understood from the foregoing that a coin cannot be passed to the coin receptacle without turning the shaft 6 and as shaft 6 is turned it operates the various elements as hereinbefore described.

What I claim and desire to secure by Letters Patent is:—

1. A toy bank comprising a casing, movable eyes and tongue provided in said casing, a sound producing device also located in said casing, an opening in said casing through which a coin is adapted to be inserted, a coin chute, means provided in said casing and extending into said coin chute for holding a coin in a predetermined position in said chute, means connecting said coin holding means with the eyes, tongue and sound producing device, and means for releasing said coin holding means whereby said eyes, tongue and sound producing device are operated.

2. A toy bank comprising a casing in the form of a head and body of a figure, movable eyes and tongue provided in said casing, a sound producing device also located in said casing, an opening in said casing, a coin chute communicating with said opening, locking means provided on said shaft and extending into said chute adapted to secure a coin in said chute in a predetermined position, means connecting said shaft with the eyes, tongue and sound producing device, and means for rocking said shaft to release said coin and operate said eyes, tongue and sound producing device.

3. A toy bank comprising a casing, movable eyes and tongue, and a sound producing device mounted in said casing, an opening provided in said casing, a coin receptacle, a coin chute communicating with said opening and extending to said receptacle, a rock shaft pivotally mounted in said casing, a bell crank lever keyed to said shaft and having one of its arms extending into said coin chute, connecting means between said shaft and said eyes, tongue and sound producing device, and means for rocking said shaft to withdraw the arm of the bell crank lever which extends into said coin chute and operates said eyes, tongue and sound producing device.

4. A toy bank comprising a casing, movable eyes and tongue and a sound producing device mounted in said casing, an opening in said casing, a coin receptacle, a coin chute communicating with said opening and extending to said coin receptacle, a door closing said opening, a rock shaft pivotally mounted in said casing, a bell crank lever keyed to said shaft, a link connecting said door to one arm of said bell crank lever, the free end of said bell crank lever extending into said coin chute, connecting means between the eyes, tongue, sound producing device and said rock shaft, and a lever provided upon said shaft on the exterior of the

casing for rocking said shaft, to withdraw the arm of the bell crank which extends into said coin chute, and also to operate the eyes, tongue and sound producing device.

5. A toy bank comprising a casing, movable eyes and tongue and a sound producing device provided in said casing, an opening provided in said casing, a coin receptacle, a coin chute communicating with said opening and extending to said coin receptacle, a plate extending across said opening, a rock shaft pivotally mounted in said casing, a bell crank lever keyed to said shaft and having one of its ends extending into said coin chute, a link connecting the plate which extends across said opening to the other end of said bell crank lever, connecting means between the eyes, tongue, sound producing device and said rock shaft, and means for rocking said shaft to withdraw the end of the bell crank lever which extends into said coin chute and for operating said eyes, tongue and sound producing device.

6. A toy bank comprising a casing, movable eyes and tongue and a sound producing device provided in said casing, an opening provided in said casing, a door swiveled on the interior of said casing and covering said opening, a rock shaft pivotally mounted in said casing, a coin receptacle, a coin chute communicating with said opening and extending to said coin receptacle, an L-shaped slot provided in said coin chute, a bell crank lever keyed to said shaft to slide thereon and to turn therewith, one arm of said bell crank lever being adapted to extend into said slot, a link connecting the other arm of the bell crank lever with the swiveled door, said link being adapted to force the bell crank lever in one direction when the door is opened, a spring for forcing said bell crank lever in the opposite direction, means for rocking said shaft to withdraw the arm of the bell crank lever which extends into said slot, and connecting means between said shaft and said eyes, tongue and sound producing device.

7. A toy bank comprising a casing, an opening provided in said casing, a coin receptacle provided in said casing, a coin chute communicating with said opening and extending into said coin receptacle, a rock shaft pivotally mounted in said casing, coin holding means provided on said rock shaft and extending into said coin chute adapted to hold a coin in a predetermined position in said coin chute, a crank provided on said rock shaft, movable eyes and tongue and a sound producing device provided in said casing, connecting means provided between said eyes, tongue and sound producing device and said rock shaft crank, and means for rocking said shaft to withdraw the coin holding means from said coin shute and operating said eyes, tongue and sound producing device.

8. A toy bank comprising a casing, an opening provided in said casing, a coin receptacle, a coin chute communicating with said opening and extending into said coin receptacle, a rock shaft pivotally mounted in said casing, coin holding means provided upon said shaft and extending into said coin chute, a crank provided upon said rock shaft, a vertical rod pivotally mounted in said casing, a double crank rigidly mounted upon said rod, a horizontal rod rigidly mounted in said casing and provided with apertures, eyes mounted in said casing and provided with pins which pass through the apertures in the horizontal rod, a plate pivotally connected to said pins and provided with an aperture, a crank pin provided upon said double crank and extending through the aperture in said plate, and a link connecting said double crank with the crank on the rock shaft, whereby when the rock shaft is rocked the coin holding means will be withdrawn from said coin chute and the eyes will be moved.

9. A toy bank comprising a casing, an opening provided in said casing, a coin receptacle, a coin chute communicating with said opening and extending into said coin receptacle, a rock shaft pivotally mounted in said casing, coin holding means provided upon said shaft and extending into said coin chute, a crank provided upon said rock shaft, a vertical rod pivotally mounted in said casing, a double crank rigidly mounted upon said rod, a horizontal rod rigidly mounted in said casing and provided with apertures, eyes mounted in said casing and provided with pins which pass through the apertures in the horizontal rod, a plate pivotally connected to said pins and provided with an aperture, a crank pin provided upon said double crank and extending through the aperture in said plate, a link connecting said double crank with the crank on the rock shaft, a mouth provided in said casing, a tongue provided in said mouth, and a rod connecting said tongue with said crank on the rock shaft.

10. A toy bank comprising a casing, an opening provided in said casing, a coin receptacle, a coin chute communicating with said opening and extending into said coin receptacle, a rock shaft pivotally mounted in said casing, coin holding means provided upon said shaft and extending into said coin chute, a crank provided upon said rock shaft, a vertical rod pivotally mounted in said casing, a double crank rigidly mounted upon said rod, a horizontal rod rigidly mounted in said casing and provided with apertures,

eyes mounted in said casing and provided with pins which pass through the apertures in the horizontal rod, a plate pivotally connected to said pins and provided with an aperture, a crank pin provided upon said double crank and extending through the aperture in said plate, a rod connecting said tongue with said crank on the rock shaft, a bellows provided upon the lower portion of said casing, a reed provided upon said bellows, a horn also provided upon said bellows and communicating with said reed, and a connecting rod between said bellows and the crank on the rock shaft.

In testimony whereof I affix my signature, in the presence of two witnesses.

CLAIRE WHITNEY.

Witnesses:

ROBERT R. RUSS,

THOS. J. HARLOE.