(No Model.)

C. P. BOOTH.

REGISTERING TOY BANK.

No. 454,839. Patented June 30, 1891.

Fig. 1.

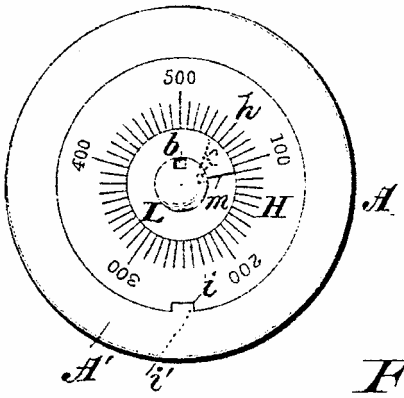


Fig. 3.

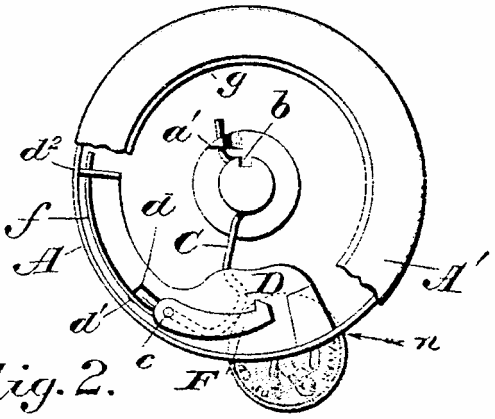
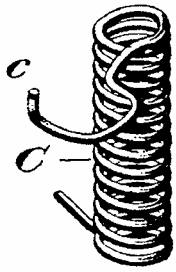
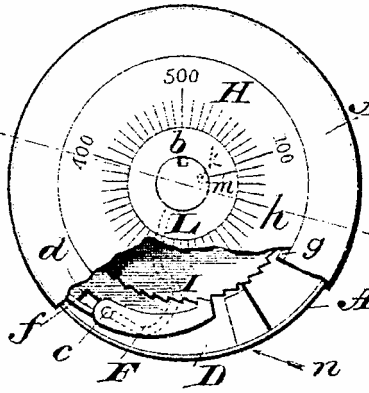


Fig. 2.

Fig. 6.





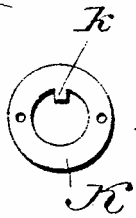


Fig. 7.

Fig. 4.

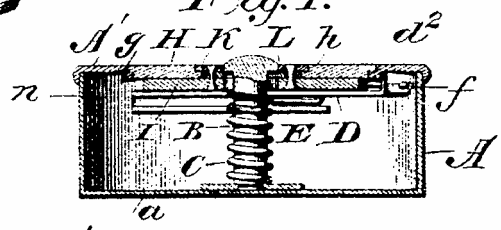
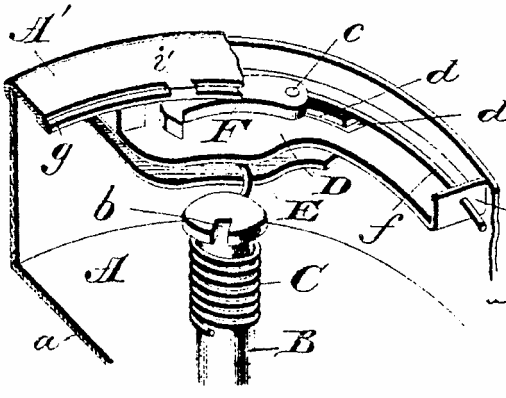


Fig. 5.



Witnesses

L. S. Elliott.

E. W. Johnson

Charles P. Booth.

Inventor

by

Attorney

UNITED STATES PATENT OFFICE.

CHARLES P. BOOTH, OF CAMDEN, NEW JERSEY, ASSIGNOR OF ONE-HALF TO SAMUEL SNELLENBURG, OF PHILADELPHIA, PENNSYLVANIA.

REGISTERING TOY BANK.

SPECIFICATION forming part of Letters Patent No. 454,839, dated June 30, 1891.

Application filed December 24, 1890. Serial No. 375,720. (No model.)

To all whom it may concern:

Be it known that I, CHARLES P. BOOTH, a citizen of the United States of America, residing at Camden, in the county of Camden and State of New Jersey, have invented certain new and useful Improvements in Registering 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

This invention relates to improvements in registering toy banks.

The object of the invention is to provide a device for the reception of coins with revoluble means or disk for indicating the amount placed in the holder, and which will be locked upon the insertion of the first coin and unlocked when a predetermined number have been passed into the receptacle.

In the accompanying drawings, forming part of this specification, Figure 1 is a plan view. Fig. 2 is a plan view with a part of the removable cover broken away. Fig. 3 is a plan view of the receptacle with the top removed, a part being broken away to better show the internal construction. Fig. 4 is a vertical sectional view taken through the line $x x$ of Fig. 2. Fig. 5 is a detail perspective view. Fig. 6 is a perspective view of the spring detached. Fig. 7 is a detail view of one of the revoluble plates of the removable cover.

A refers to the box or receptacle, to the bottom a of which is rigidly secured a post B, having an enlarged head, which is grooved or cut away to form the slot b. To the bottom within the receptacle and adjacent to the post B is attached a plate having a lug or projection a', against which the lower projecting end of the helical spring C abuts, said spring encircling the post B and having its upper end extended horizontally and bent to provide a curved portion, one member of which lies substantially at right angles with the helical spring, as shown in Figs. 3 and 6, the extreme end c forming a pivot for a pawl.

To one side of the receptacle A and to project within the same are secured plates D and E, between which is left a space or coin-slot n, through which the coin is passed and in which the bent end of the spring C is located. The upper plate D has a slot d of less length than the diameter of the coin which the receptacle is adapted to receive, and the rear end of this slot beyond the intended movement of the bent end of the spring is extended outward to provide the notch d', with which the upturned end of the spring C engages when the spring is forced back beyond the proper limit of its movement, as by the insertion of a knife-blade or other object than the proper coin, and locked, so that the parts cannot be operated.

Above the plate D and to the upturned end c of the spring C is pivoted a pawl F, from which extends a spring f, playing through the bent end d^2 of the plate D, said spring serving to keep the pawl in engagement with the ratchet-wheel to be hereinafter described.

The receptacle A is provided with a part cover A′, which is rigidly attached in any suitable manner and is provided with a depressed inwardly-projecting flange g, upon which the removable top H is positioned. This removable top H is preferably made up of superimposed disks h, L, K, and I, suitably connected, the larger disk h, when placed in position, being held against rotation by a lug i', formed with the rigid top A′, entering a recess i in the disk h of the removable top. The disk h has a graduated scale, which corresponds with the number of ratchet-teeth on the disk or wheel I. This ratchet-wheel is located immediately beneath the disk h, and above said ratchet-wheel is secured a disk K, carrying an inwardly-projecting tongue k, adapted to be passed through the slot b in the post B, so that when said disk is turned the tongue will lie under the flanged head of the post and prevent the removal of the top. Above the disk K is secured a disk L, having a gage-mark m on a line with the tongue k, which disk rotates in the stationary disk h. The disk K, having the tongue k, is secured rigidly to the disk L, upon which is the gage-mark m, so that the tongue and gage-mark

will be on a line with each other, and in Figs. 1 and 2 of the drawings these parts are represented with respect to the post D and stationary disk *h* as if eleven coins had been passed into the receptacle. The tongue *k* moves under the head of the post after being passed through the slot therein, and when the disk carrying the gage-mark and tongue are rotated to present the gage-mark and tongue on a line with the slot the upward pressure of the spring will throw the removable top off. The top is removable and has revoluble portions with the gage-mark and tongue *k*, which tongue extends inwardly to engage with the head of the post, as shown, serves with the other parts to provide a lock to hold the removable top on the post, and it is obvious that this removable top has a central opening through which the head of the post passes.

It will be noticed that the ratchet-wheel I and disks K and L are rigidly secured to each other and are movably connected to the disk *h*.

The upper end of the spring C, which encircles the post and is extended to form a pivot for the pawl F, is bent as shown, so that a coin when inserted in the coin-slot *n* between the plates D and E will press against said spring and operate the ratchet-wheel I through the medium of the pawl F, the spring acting also to throw the coin into the receptacle.

The device illustrated is adapted to receive dimes, though it is obvious one could be constructed on the same principle to receive coins of other sizes or value. The article forms a convenient, portable, and neat toy savings-bank which is adapted to be carried in the pocket, and after the first coin has been passed through the slot the top is locked and cannot be opened without destroying the receptacle until a predetermined number of coins have been passed through the slot, at which time the top H is automatically unlocked.

In operation the disks are placed so that the notch or recess *i* is engaged by the lug *i'* and the finger *k* passed into the slot *b*. Now by holding the top down the spring will be slightly depressed, and when the coin is inserted it will operate the extended end of the spring to revolve the revoluble top one point, which will move the finger under the flanged head of the post and lock the top in position. As each subsequent coin is inserted the revoluble top will be moved one point forward, the spring being pushed to one side to retract the pawl carried thereby. When the full number of coins have been inserted, the finger *k* will be brought beneath the slot *b* and the top automatically released. At any time the number of coins in the receptacle can be determined by the gage-marks on the disks *h* and L. Should an attempt be made to open the receptacle by inserting other than the proper coin, the spring C would likely be pressed back too far, at which event the upturned end of the spring would enter the notch or recess *d'* and prevent further manipulation of the spring, and in order to obtain the contents of the box it would have to be destroyed, the pawl or ratchet-wheel not being accessible through the coin-receiving slot.

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

1. The combination, in a toy bank, of a receptacle having a coin-receiving slot, a removable top consisting of a stationary portion and a revoluble portion, one part having a graduated scale and the other a gage-mark, and means for holding the top in engagement with the receptacle.

2. The combination, in a receptacle for coins having a coin-receiving slot, of a removable top secured to said receptacle, and means for turning a part of said top when a coin is passed through the slot.

3. The combination, in a registering-receptacle for coin having a coin-receiving slot, of a top secured to said receptacle, a spring attached to the receptacle, so that one end will lie opposite the slot and in the path of the coin, and means carried by the spring which engages with a revoluble portion of the top for turning the revoluble top one step when a coin is inserted, substantially as shown, and for the purpose set forth.

4. The combination, in a registering-receptacle for coin having a coin-receiving aperture or slot, of a removable top having a revoluble registering mechanism forming part thereof, the top being attached to said receptacle and a spring adapted to be actuated by a coin, a ratchet-wheel attached to the revoluble part of the top, and a pawl carried by the spring, substantially as set forth.

5. The combination, in a registering coin-receptacle having a coin-receiving slot and a centrally-located post B, of a spring mounted on said post, a portion of the spring intersecting the coin-receiving slot or aperture, a pawl carried by the end of the spring, a ratchet-wheel, and part top secured to the post so as to turn thereon and be advanced step by step as each consecutive coin is inserted, substantially as shown, and for the purpose set forth.

6. In combination with the receptacle A, having a removable top, a headed post having a slot *b* and secured centrally to said receptacle, a spring having one end bent and extended so as to normally lie in the path of the coin when inserted in the slot, a pawl carried by said spring, and a plate D, having a slot *d* and a guide *d'*, through which a spring carried by the pawl passes, the parts being constructed substantially as shown, together with a ratchet-wheel secured to the revoluble part of the top, said top being held in engagement with the post, substantially as set forth.

7. The combination, in a coin-receptacle constructed substantially as shown and pro-

vided with a spring carrying a pawl, of a ratchet-wheel attached to the revoluble top, and a plate D, having a slot through which the end *c* of the spring passes, said slot being extended at *d'*, into which the spring will pass and be held when pressed beyond the proper limit, substantially as set forth.

8. The combination, in a coin-receptacle, of a box or casing having a central post to which a top is removably secured, a spring having a coiled portion which embraces the post, the upper end of said spring being bent to form an inclined portion near the coin-receiving slot, a plate or disk D, having a slot *d*, through which the terminal portion *c* of the spring passes, a pawl carried by the upturned end of the spring, a ratchet-wheel secured to and forming a part of the revoluble top, the plate D separating the operating mechanism, excepting the spring, from the receptacle, substantially as set forth.

9. The combination, in a coin-receptacle, of a removable top having a central opening therein, a disk *h*, resting upon the inwardly-extended edge of the part top A' of the receptacle and provided with indicating-marks, a revoluble disk L, having a gage-mark, a disk K, having a finger *k*, beneath which a ratchet-wheel is located, the parts being secured to and connected to each other, substantially as shown, and a receptacle having a central post B, with an enlarged head having a slot *b*, together with means for advancing the revoluble portion of the top one step on the passage of each coin through the slot, substantially as set forth.

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

CHARLES P. BOOTH.

Witnesses:

GUSTAVUS REMAK, Jr.,

SAM FROHSIN.