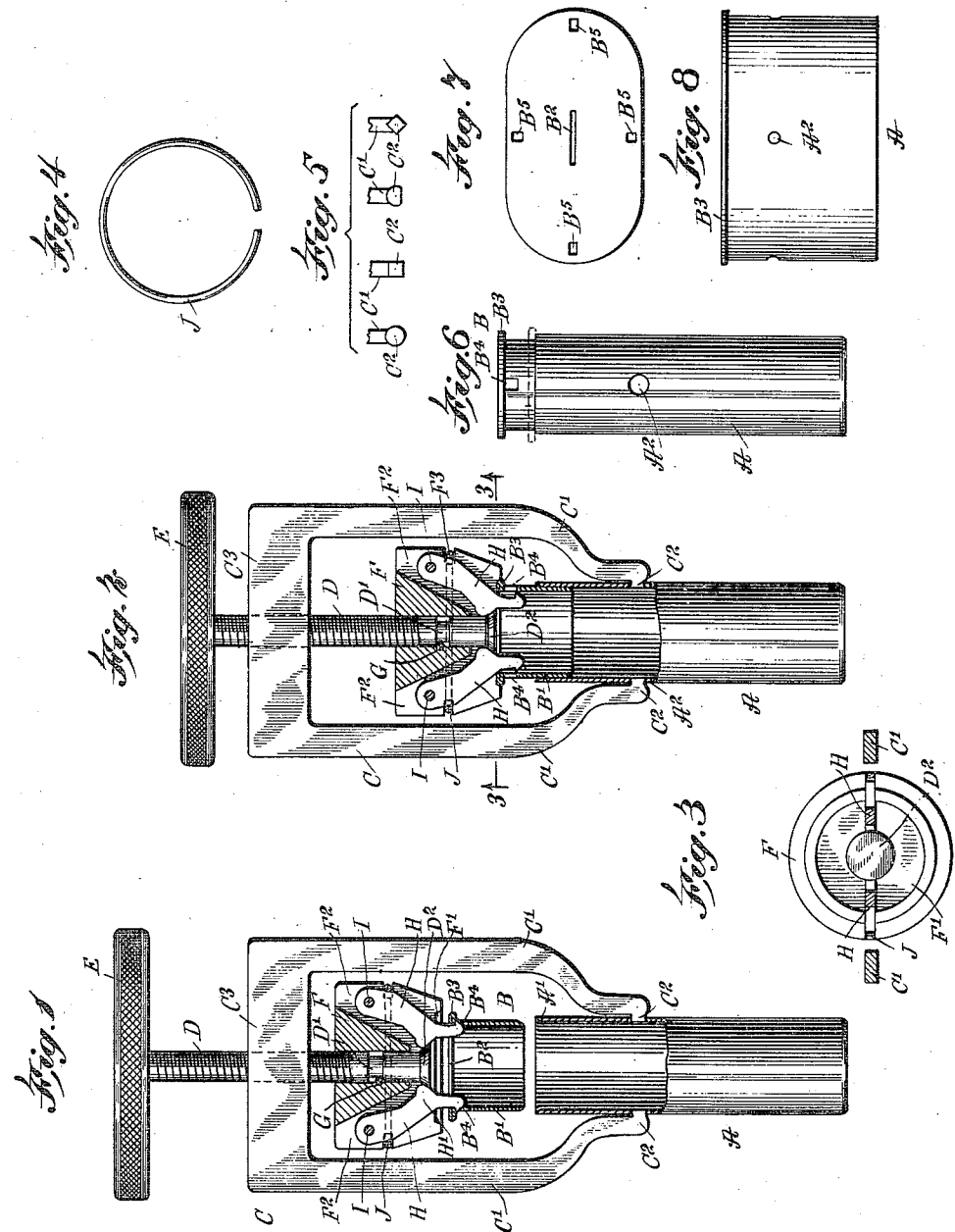


C. A. WALES.
SAVINGS BANK.

APPLICATION FILED JAN. 29, 1910.

994,621.

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SAVINGS-BANK.

994,621.

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To all whom it may concern:

Be it known that I, CLAUDE A. WALES, a citizen of the United States, and a resident of Stratford, in the county of Fairfield and State of Connecticut, have invented new and useful Improvements in Savings-Banks, of which the following is a full, clear, and exact description.

The invention relates to deposit and collection receptacles, and its object is to provide certain new and useful improvements in savings banks or boxes, whereby the closure cap is conveniently placed in position on the box body and held therein against removal by unauthorized persons, without the use of special locking devices, and whereby the closure cap can be readily removed by the use of a special implement in the hands of a proper person, to allow of emptying the bank or box of its coin or other contents. For the purpose mentioned, the closure cap for the box body is held in position thereon by a driving fit, and a special implement is provided for driving the cap in position on the box body or removing it therefrom.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a sectional side elevation of the box body, cap and implement in position when removing the cap from the box body; Fig. 2 is a like view of the same and showing the parts in position when driving the cap in place on the box body; Fig. 3 is an inverted sectional plan view of the same on the line 3—3 of Fig. 2; Fig. 4 is a plan view of the spring for the hooks; Fig. 5 shows face views of a number of differently shaped terminals for the side arms of the yoke or frame; Fig. 6 is a side elevation of the savings bank, showing the cap partly closed; Fig. 7 is a plan view of a modified form of savings bank; and Fig. 8 is a side elevation of the same.

The savings bank or box consists essentially of a box body A, and a cap B adapted to be driven into the open end of the box body A with a driving fit, to hold the cap in place on the box body and to close the same, without the use of other locking or fastening devices. For the purpose mentioned the side wall B' of the cap B has its exterior diameter slightly in excess of the interior di-

ameter of the open end of the box body A, and the upper edge A' of the box body A is slightly beveled, so that the side B' of the cap B is readily guided into the open end of the box body A, to be finally driven in place by applying sufficient pressure on the top of the cap B, as hereinafter more fully explained. The top of the cap B is provided with a coin slot B², of sufficient size to permit the introduction of a coin, such as a dime, for instance. The top of the cap B is also provided with a doubled-up rim B³, which is adapted to be seated with its under side on the upper end of the box body A, as plainly indicated in dotted lines in Fig. 6 and also in Fig. 8. The box body A and the cap B may be circular in cross section, as indicated in Figs. 1, 2 and 6, or oblong, as indicated in Figs. 7 and 8; and other shapes may be given to the box body and its cap without deviating from the invention.

It is understood that the box body A is preferably made from a single piece of sheet metal, and likewise the cap B, so that when the latter is driven home to close the box body A, the bank consists only of two parts, that is, the box body A and the cap B, and the cap B is securely held in place against removal by unauthorized persons.

In order to permit of driving the cap B with a driving fit into the open end of the box body A, or for removing the cap B from the box body A by a proper person, use is made of an implement arranged as follows: A yoke or a frame C, of approximately U shape, is provided with side arms C' having terminals C² adapted to fit into apertures A², arranged on the box body A at a point between the ends thereof. On the yoke C is arranged a plunger D adapted to move in the direction of its length, and preferably in the form of a screw rod screwing in the middle portion C³ of the yoke C. The upper end of the plunger D is provided with a suitable handle E, adapted to be taken hold of by the operator, for turning the plunger D, so as to screw the same up or down in the yoke C. On the lower end of the plunger D is mounted a driving head F, provided in its under side with a recess F' adapted to fit onto the top and rim of the cap B, as plainly indicated in Fig. 2. The driving head F has a limited sliding movement on the plunger D, and for this purpose a pin G is secured on the driving

head F and extends through an annular space formed in the bore of the driving head F at a reduced portion D' of the plunger D, as plainly indicated in Figs. 1 and 2. Now, when it is desired to place the cap B in position on the box body A, the yoke C is first attached to the box body A by springing the terminals C² into engagement with the apertures A² of the box body A. The cap B is now placed in position on the open upper end of the box body A, and the plunger D is moved downward by turning the handle E, so that the recess F' finally engages the top of the cap B. On the further downward movement of the plunger D, the driving head F is carried along by the upper shoulder of the cut out portion D' abutting against the pin G, so that the driving head F exerts a downward pressure on the cap B and forces the same with its side wall B' into the upper open end of the box body A, until the rim B³ is seated on the upper edge of the said box body. The plunger D is now retracted and with it the head F, after which the yoke C is disconnected from the box body A.

In order to permit of using the implement for removing the cap B from the box body A, the following arrangement is made: The driving head F is provided with slots F², in which extend hooks H, fulcrumed at their upper ends on pivots I held on the driving head F. The lower or hook ends of the hooks H project below the bottom of the driving head F, and are adapted to pass through the coin slot B² into the inside of the cap B, to engage apertures B⁴ formed in the side wall B', directly below the rim B³, as plainly indicated in the drawings. The hooks H are provided with inwardly-extending offsets or cam surfaces H', adapted to be engaged by a cam D² in the form of a head on the lower end of the plunger D. A spring J, in the form of a split ring, is held in a recess F³ formed on the peripheral face of the head F and engaging the hooks H, so as to press the same inward with a view to hold the hooks H in an innermost or retracted position during the time the cap B is driven into position on the box body A, as before explained. In removing the cap B from the box body A, the yoke C is connected at its terminals C² with the apertures A² of the box body A, and then the plunger D is moved downward, so that the lower ends of the hooks H pass through the coin slot B² into the interior of the cap B, and then the plunger D is retracted so that the cam D² acts on the cam surfaces or projections H', to swing the hooks H outward and in doing so cause the hook ends of the said hooks to engage the apertures B⁴, as plainly indicated in Fig. 1. The plunger D is now further retracted or moved upward, whereby the driving head F is carried along and with it the hooks H, as the pin G is now in engagement with the lower shoulder of the cut out portion D'. During this upward movement of the plunger D, the driving head F and the hooks H, the cap B is forcibly drawn out of the open end of the box body A, to disconnect the cap B from the box body A (see Fig. 1). The yoke C is now disconnected from the box body A and the latter can now be emptied of its contents, and after this has been done the cap B can be replaced in the open end of the box body A by re-applying the yoke C to the box body, and proceeding in the manner previously described for forcing the cap B into the upper open end of the box body. It is understood that the apertures B⁴ are in alinement with the coin slot B², so that when the hooks H pass through the coin slot B² and are forced outward by the cam D², then the hook ends pass readily into the said apertures B⁴, to bear against the under side of the doubled-up portion of the rim B³, thus insuring a firm hold and proper removal of the cap B when retracting the plunger D, as previously explained. The terminals C² of the yoke C may be made in different shapes, as indicated in Fig. 5, and the apertures A² in the box body A may be similarly shaped, so that an implement having terminals of one shape cannot open boxes or banks having apertures A² of another shape. For savings banks or boxes of larger sizes, such as shown in Figs. 7 and 8, it may be desirable to provide more than two apertures A² or more than two apertures B⁴ and a corresponding number of hooks H and terminals C² on the yoke C. In the elongated form shown in Figs. 7 and 8, the hooks H are not passed through the coin slot B² but through separate apertures B⁵, in alinement with the apertures B⁴. It is understood that by forcing the cap B with a driving fit into the open end of the box body A, no further locking or fastening devices are required to hold the cap B against removal by ordinary means, especially as the portion between the side B' and the wall of the box body A is sufficient to resist attempts to remove the cap by ordinary means. Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. A lockless savings bank, comprising a box body open at the upper end and provided with apertures intermediate the ends, and a cap adapted to engage the inner surface of the said open end of the box body with a driving fit, the cap having a rim adapted to be seated on the upper edge of the box body and the said cap having registering openings in the top and sides.
2. A lockless savings bank, comprising a

box body open at the upper end and provided with apertures intermediate the ends, and a cap adapted to engage the inner surface of the said open end of the box body
 5 with a driving fit, the cap having a rim adapted to be seated on the upper edge of the box body and the said cap having a coin slot in the top and apertures in the side in alinement with the said coin slot.

10 3. A lockless savings bank, comprising a box body open at the upper end and provided with apertures intermediate the ends, and a cap having a coin slot in the top, a doubled-up rim, and apertures in the side
 15 wall of the cap below the said rim.

4. In combination with a box body and a cap for engagement with the said box body by a driving fit, the cap having a coin slot in its top and apertures in the side wall,
 20 and the said box body having apertures at a point intermediate the ends, a yoke having its terminals engaging the said box body apertures, a plunger mounted to travel in the direction of its length in the said yoke,
 25 a driving head carried by the said plunger, and hooks pivoted on the said driving head and adapted to pass through the said coin

slot to hook into the apertures in the side wall of the cap, the said screw rod engaging the said hooks to spread the same. 30

5. In combination with a box body and a cap for engagement with the said box body by a driving fit, the cap having a coin slot in its top and apertures in the side wall, and the said box body having apertures at a
 35 point intermediate the ends, a yoke having its terminals engaging the said box body apertures, a plunger mounted to travel in the direction of its length in the said yoke, a driving head carried by the said plunger,
 40 hooks pivoted on the said driving head and adapted to pass through the said coin slot to hook into the apertures in the side wall of the cap, the said screw rod engaging the said hooks to spread the same, and a spring
 45 for closing the said hooks and held on the said head.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CLAUDE A. WALES.

Witnesses:

THEO. G. HOSTER,
 PHILIP D. ROLLHAUS.