June 19, 1923.

D. H. WAGAR

1,459,424

SAVINGS BANK

Filed July 21, 1922

2 Sheets-Sheet 1

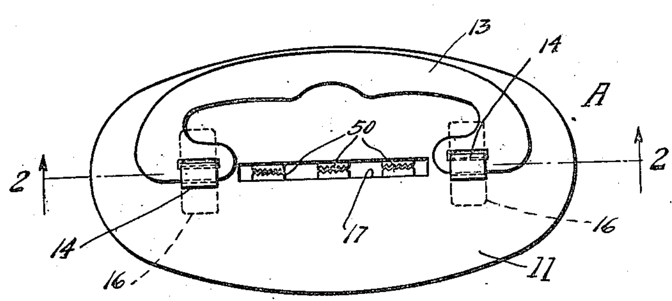

Fig. 1

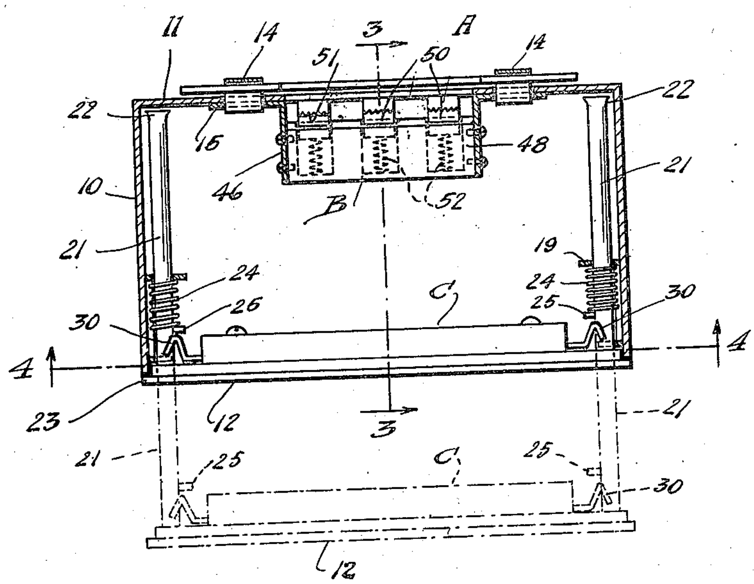

Fig. 2

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June 19, 1923. **1,459,424**

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SAVINGS BANK

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Fig. 3

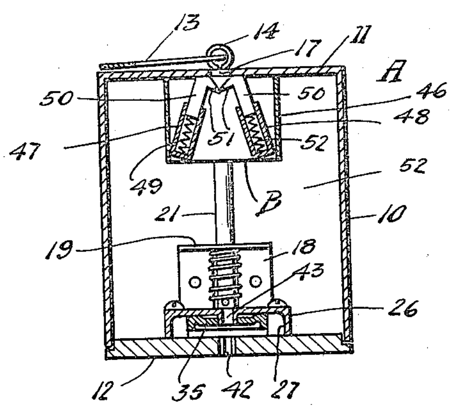
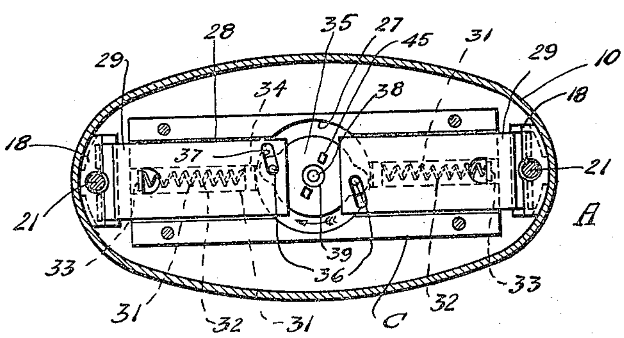


Fig. 4



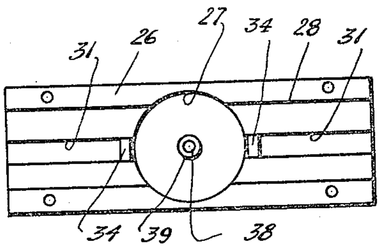


Fig. 6

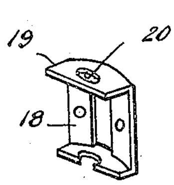
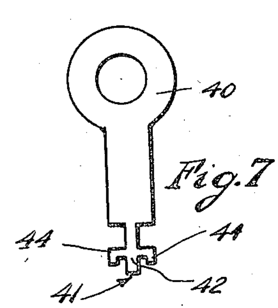


Fig. 5



Witnesses:

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UNITED STATES PATENT OFFICE.

DUANE H. WAGAR, OF OCEAN PARK, CALIFORNIA.

SAVINGS BANK.

Application filed July 21, 1922. Serial No. 576,446.

To all whom it may concern:

Be it known that I, DUANE H. WAGAR, a citizen of the United States, and a resident of the city of Ocean Park, county of Los Angeles, and State of California, have invented certain new and useful Improvements in Savings Banks, of which the following is a specification.

My invention relates to new and useful improvements in savings banks, and has for its principal object the provision of an improved construction of this character, which will be highly efficient in use and economical in manufacture.

The primary object of my invention is to alleviate the difficulty with which a bank teller meets with on attempting to replace the wall of a bank of this character which is removed to permit access to the interior of the bank. This difficulty is due to the fact that in the teller's haste to replace the removable wall, he does not take the pains to see that the wall is set in its true position, and consequently a good deal of time is spent in trying to find the proper position in which the removable wall is to be mounted after the coins of the bank have been removed. In connection with this object of my invention, I provide guide members which are frictionally held by suitable channel shaped elements fixed to the bank body and it is through the medium of the guide members that when an attempt is made to replace the removable wall the same will be guided into its true position.

A further contemplation of the invention is the provision of a coin trap which will prevent the removal of coin after the same is deposited in the bank or even when the coin is partly passed through the trap. It is a known fact that there are now on the market various coin traps, but I have found by experience that by operating on them with a suitable instrument, the coins can in short time, be removed from the bank. It is therefore an object of my invention to provide a coin trap which will withstand tampering with the same and prevent the removal of the coin from the bank, this provision will be more readily understood by reference to the specification relating to the same to be hereinafter set forth.

Other objects will appear hereinafter.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which,

Fig. 1 is a top plan view of a bank embodying the invention;

Fig. 2 is a sectional detail view, of the same, taken substantially on line 2—2 of Fig. 1;

Fig. 3 is a sectional detail view, of the same, taken substantially on line 3—3 of Fig. 2;

Fig. 4 is a sectional detail view, of the same, taken substantially on line 4—4 of Fig. 2;

Fig. 5 is a perspective view of one of the slidable wall hangers, embodied in the invention;

Fig. 6 is a plan view of one of the plates comprising the lock, embodied in the invention, for locking the slidable wall in locked position;

Fig. 7 is a plan piew of the key for my improved savings bank.

In carrying out the invention, the preferred form of construction as illustrated in the drawings, comprises a bank A having integral side and top walls 10 and 11 respectively and a slidable bottom wall 12. The bank A is provided with a suitable handle 13 which is fixed to the top wall 11 by means of suitable split pins 14, which pass through slots 15 formed in the top wall, each having their opposite ends bent away from each other as shown in dotted lines, indicated at 16, Fig. 1. The top wall 11 is provided with an elongated coin slot 17 entrance and exit through which is controlled by a coin trap B to be hereinafter more fully explained.

While the drawings illustrate the preferred shape of my improved bank it is to be thoroughly understood that the invention will apply as well in most any approved shape of bank, for example, the book form bank, or the like.

Most banks of the character herein set forth are provided with a removable wall secured in place through the medium of a suitable lock and which can be readily removed to remove the coins from the bank. After this wall has been removed from the bank body proper, and the coins removed from the bank, the user on attempting to replace the wall spends considerable time trying to find the true position in which to

mount the same, or often when a number of banks are open the same wall is not placed on the same bank. To alleviate these objections I provide oppositely disposed channel-shaped supporting members 18 fixedly secured to the side walls 10 of the bank, said supporting members being provided with upper and lower laterally turned flanges 19 having registering openings 20 as shown in Fig. 5. Associated with the slidable wall 12 and passing through the registering openings 20 of the supports 18 are guide members 21, as shown in Fig. 2, said guide members being preferably riveted to the wall 12 and provided with rivet shaped heads 22, as shown. The guide members 21 are preferably adapted to frictionally pass through the registering openings 20 of the supports 18, the purpose being such that when the wall 12 is moved into locking position the movement of the guide members 21 will be in unison regardless where the forward pressure is applied to the wall. As best shown in Fig. 2, the wall 12 is provided with a lateral flange 23 which, when the wall is in locked position, is flush with the side walls 10 of the bank.

Associated with the guide members 21 and arranged between the laterally turned flanges 19 are expansion springs 24 which are adapted to be engaged by lateral pins 25, carried by the guide members 21, when the wall 12 is in locked position. The purpose of the expansion spring 24 is to partially force the wall 12 out of locked position when released by the lock C to be hereinafter described.

The lock construction C comprises a rectangularly shaped plate 26 having a central circularly shaped recess 27 and opposite elongated recesses 28. Mounted in the recesses 28 are slidable plates 29 having V-shaped projections 30 which are adapted, when the wall 12 is in locked position, to engage the lower flanges 19 of the supports 18. The plate 26 is also provided with opposite channels 31 into which expansion spring members 32 are mounted, said spring members being adapted to engage inwardly turned lips 33 punched from the slidable plates 29 and transverse stops 34 formed in the channels 31. The purpose of the spring members 32 are to impart to the slidable plates an outward movement and to retain the V-shaped projections 30 into locking contact with the lower lateral flanges 19. The slidable plates 29 are disengaged from the lateral flanges 19 through the medium of a disc shaped member 35 having lateral pins 36 which engage elongated slots 39 formed in the said plates, as shown in Fig. 4. The disc member 35 is mounted to oscillate in the recess 27 and is provided with a central opening 38 through which an annular projection 39 passes. The member 35 is actuated through the medium of a key 40, as shown in Fig. 7, which is provided with a T-shaped end 41 which is adapted to pass through a key hole 42 formed in the slidable wall 12. The central stem 42 of the T-shaped end 41 is adapted to pass into a central opening 43 formed in the plate 26 and the lateral projections 44 of the T-shaped end 41 of the key are adapted to engage square shaped holes 45 formed in the disc shaped member 35 as shown in Fig. 4. With the key in this position and upon manipulating the same, the disc shaped member 35 will be caused to oscillate in the direction indicated by an arrow in Fig. 4, and upon such oscillation the plates 29 are drawn toward each other bringing the V-shaped projections 30 from locking engagement with respect to the lower lateral flanges 19. As soon as the V-shaped projections are moved out of engagement with the lower lateral flanges 19, the spring members 24 will impart an outward movement of the wall 12 and by grasping the wall with the hands, the same can be pulled outward as far as the members 21 will permit.

Referring now to the specific construction of my improved coin trap I prefer to mount on the inner side of the top wall 11 an enclosure 46 which carries diverging supporting blocks 47 and 48, as shown in Fig. 3. The supporting blocks 47 and 48 are disposed on opposite sides of the coin slot 17 as best shown in Fig. 3. Carried by the supporting blocks 47 and 48 and mounted in recesses 49 are lock members 50 having serrated lateral projections 51 which control the passage of coin into the coin chamber 52 of the bank. The members 50 are normally forced outwardly, as shown in Fig. 3, by spring members 52 mounted in the recesses 49. It will be thus seen that when a coin is partly passed through the coin slot and an attempt is made to withdraw the coin, the serrated lateral projections will be caused to wedge against the coin and prevent withdrawal.

By this construction it is obvious that when once a coin is passed entirely through the coin slot 17 or only partly passed therethrough, it will be impossible to withdraw or remove the coin from the coin chamber 52.

By my invention I provide a savings bank especially designed to be used by banking houses to encourage saving of money in small amounts. The construction of my improved savings bank has many advantages over the banks of this character now on the market and will not only prove a great value to the banking house but also to the individual.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is ca-

pable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

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

1. A bank comprising side and top walls; a bottom wall mounted for slidable movement laterally from said top wall; members having registering openings on said side walls; and guide means carried by said bottom wall and passing through said openings.

2. A bank comprising side and top walls; a bottom wall mounted for slidable movement; channel-shaped members carried by said side walls and provided with registering openings; guide members carried by the bottom wall and working in said openings; and locking means for said bottom wall including plates mounted for slidable movement and having V-shaped ends for engagement with said channel members.

3. A bank comprising side and top walls; a bottom wall mounted for slidable movement; channel-shaped members carried by said side walls and provided with registering openings; guide members carried by the bottom wall and working in said openings; locking means for said bottom wall including plates mounted for slidable movement and having V-shaped ends for engagement with said channel members; and spring members carried by said guide members for partially opening said bottom wall upon release thereof.

4. A bank comprising side and top walls, there being a coin slot formed in said top wall; a releasable bottom wall; supporting members arranged on opposite sides of said coin slot; and spring controlled members arranged in said supporting means for closing the passage through said coin slot.

5. A bank comprising a body having a releasable bottom wall; a coin slot formed in said body; and spring controlled diverging members controlling the passage through said coin slot.

6. A bank including a body having a coin slot formed therein; spring controlled diverging members controlling the passage through said coin slot; a bottom mounted for slidable movement on said body; channel-shaped members carried by said body and provided with registering openings; guide members carried by said bottom and working through said openings; and means for releasably locking said bottom, said means comprising slidable members for engagement with said channel members.

7. A bank including a body having a wall mounted for slidable movement and provided with means for imparting partial movement in an outward direction, and members carried by the wall and insertable within said body adapted to guide the wall during such movement and limit the slidable movement of the wall in an outward direction.

8. A bank including a body having a wall mounted for slidable movement and provided with means for imparting partial movement in an outward direction, means for releasably holding said wall against such outward movement, and members carried by the wall and insertable within said body adapted to guide the wall during such movement and limit the slidable movement of the wall in an outward direction.

9. A bank comprising side and top walls; a slidable bottom wall affording means for removing coins from the interior of said bank; supporting members carried by said side walls; guide members associated with said bottom wall and mounted to slide on said supports for guiding said bottom wall during movement thereof; and spring members associated with said guide members adapted to impart slidable movement of said bottom wall.

10. A bank comprising side and top walls; a slidable bottom wall affording means for removing coins from the interior of said bank; supporting members carried by said side walls; guide members associated with said bottom wall and mounted to slide on said supports for guiding said bottom wall during movement thereof; spring members associated with said guide members adapted to impart slidable movement of said bottom wall; and means for releasably locking said bottom wall.

11. A bank comprising side and top walls; a slidable bottom wall; channel-shaped supports carried by said side walls; guide members associated with said bottom wall and slidably mounted on said supports; spring members associated with said guide members for imparting slidable movement to said bottom wall; and lateral ears carried by said guide members adapted to compress said spring members when said bottom wall is in closed position.

12. A bank comprising side and top walls; a slidable bottom wall; channel-shaped supports carried by said side walls; guide members associated with said bottom wall and slidably mounted on said supports; spring members associated with said guide members for imparting slidable movement to said bottom wall; lateral ears carried by said guide members adapted to compress said spring members when said bottom wall is in closed position; and means for locking said bottom wall in closed position.

13. A bank comprising top and side

walls; a slidable bottom wall; channel-shaped members associated with said side walls; and guide members associated with said bottom wall and slidably mounted on said channel members for guiding said bottom wall during movement thereof, there being heads formed on said guide members to prevent the detachment of said bottom wall from said bank when in opened position.

14. A bank comprising a coin chamber; a coin slot for the deposit of coin into said chamber; supporting blocks disposed on opposite sides of said coin slot; and serrated members associated with said blocks for controlling the passage of coin through said coin slot.

15. A bank comprising a coin chamber; a coin slot for the deposit of coin into said chamber; supporting blocks disposed on opposite sides of said coin slot; and spring controlled serrated members associated with said blocks for controlling the passage of coin through said coin slot.

16. Means for controlling the deposit of coin through a coin slot of a savings bank comprising in combination with an enclosure carried by the top wall of said bank; supporting blocks associated with said enclosure, there being recesses formed in said supporting blocks, and spring controlled elements mounted in said recesses for controlling the passage of coin through said coin slot, said elements having lateral serrated projections adapted to engage the sides of a coin passed through said coin slots.

18. A bank including a body having a wall mounted for slidable movement, and members carried by the wall and taken through guides and having enlarged head portions for limiting the movement of said wall in an outward direction.

18. A blank including a body having a wall mounted for slidable movement and having means for imparting partial movement in an outward direction, and members associated with the wall and insertable within said body adapted to limit the movement of said wall in such direction.

19. A bank including a body having a wall mounted for slidable movement and having means for imparting partial movement in an outward direction, means for releasably holding said wall against movement in such direction, and members associated with the wall and insertable within said body adapted to limit the movement of said wall in such direction.

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

DUANE H. WAGAR.

Witnesses:
G. W. HAMMEL,
J. M. PIRIE.