

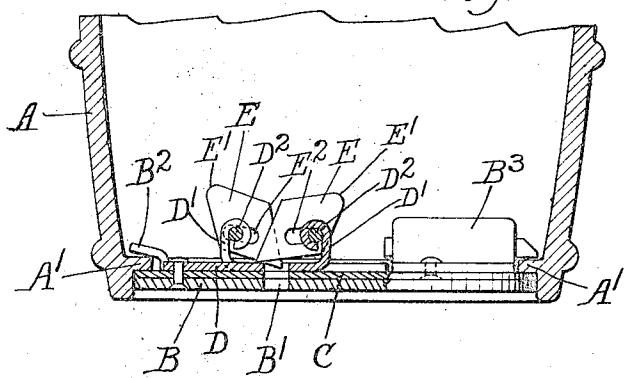
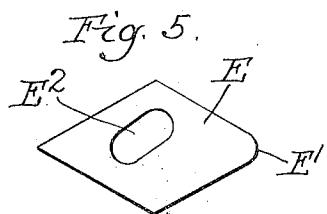
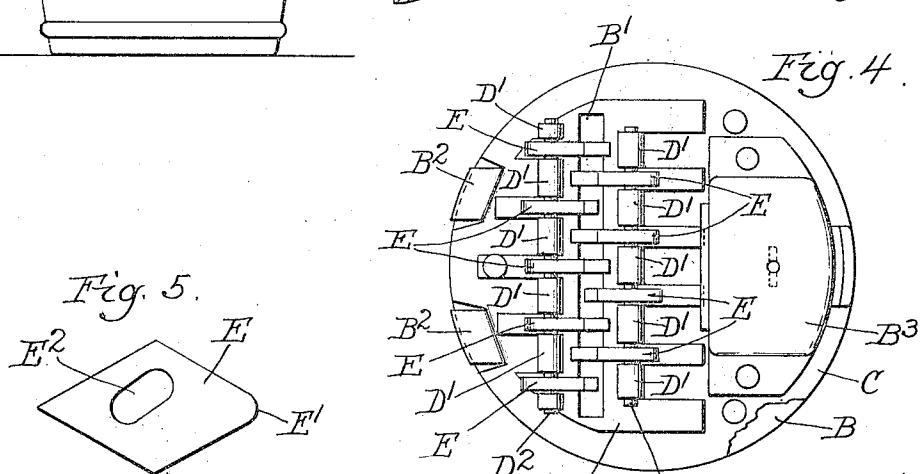
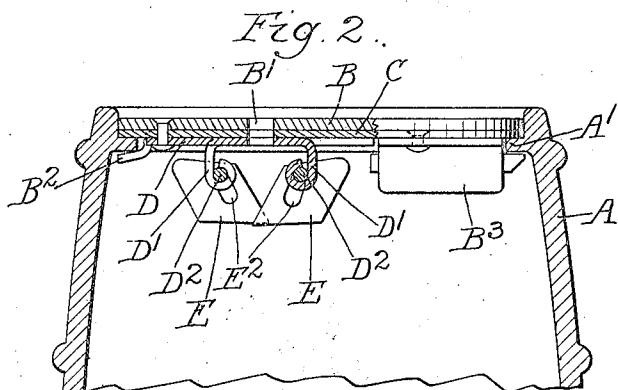
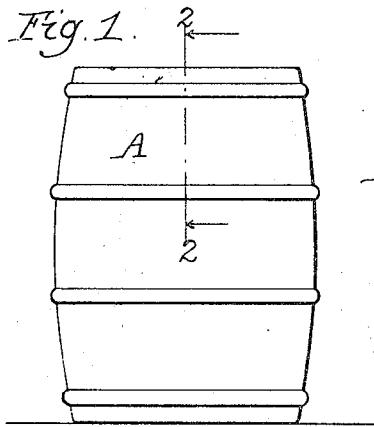
June 12, 1923.

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A. C. PRINCE

BANK

Filed Nov. 23, 1921



Witness.

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## UNITED STATES PATENT OFFICE.

ARTHUR C. PRINCE, OF CHICAGO, ILLINOIS.

## BANK.

Application filed November 23, 1921, Serial No. 517,171.

To all whom it may concern:

Be it known that I, ARTHUR C. PRINCE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Banks, of which the following is a specification.

This invention relates to a coin bank and particularly to a slot for the same. It has one object to provide a slot protection which permits of the ready introduction of coins but make impossible the withdrawal of coins through the slot. Other objects will appear from time to time throughout the specification and claims.

My invention is illustrated more or less diagrammatically in the accompanying drawings, wherein—

Figure 1 is a side elevation of the bank, in this case shown in the form of a barrel;

Fig. 2 is a vertical cross section of the upper part of the bank taken on line 2—2 of Fig. 1;

Fig. 3 is a view similar to Fig. 2 with the bank reversed;

Fig. 4 is a plan view of the inside of the end closure of the bank with parts shown in the position in which they appear in Fig. 3;

Fig. 5 is an elevation of one of the tumblers.

Like parts are designated by like characters throughout.

A is a barrel provided in one end with a removable closure B which has in it a slot B'. About the interior of the barrel adjacent its open end is an annular ring or ledge A'. At two or more points about the periphery of the closure B are engaging lugs B<sup>2</sup> B<sup>2</sup>. These lugs engage the ledge A' in the manner shown in Fig. 2. Substantially opposite the lugs is a lock B<sup>3</sup> which engages the ledge A' in the manner indicated in Figs. 2 and 3.

As here shown the closing plate B has fastened to it a second plate C. The lugs B<sup>2</sup> B<sup>2</sup> are integral with this plate and the lock B<sup>3</sup> is fastened to it. While this is an advantageous construction, it will be understood that it is not essential and the lugs might be otherwise formed and the plate C might be omitted.

Beneath the plate C and fastened to it is a plate D which overlies and surrounds the slot B'. A plurality of tongues D' D' are partially cut from the plate D and are rolled outward and closed upon themselves to form the bearings for a shaft or pin D<sup>2</sup> as shown

in Figs. 2, 3, and 4. The members D' are manipulated so as to form themselves into a pair of parallel rows of bearings as shown, and between these bearings are spaced tumblers E, one tumbler between each pair of bearings. The pins or shaft D<sup>2</sup> are threaded through the bearings and through the tumblers and so support the tumblers in a movable position.

The tumblers E are formed substantially diamond shape with one corner preferably rounded as at E'. Cut in the tumbler is a slot E<sup>2</sup> having preferably rounded ends. This slot is substantially parallel to two sides of the diamond shaped tumbler and is preferably closer to one side as shown in the figures.

I have shown an operative invention, still it will be obvious that many changes both of form, shape and relation of parts may be made without departing materially from the spirit of my invention, and I wish therefore that my showing be taken as in a sense diagrammatical.

The use and operation of my invention are as follows:

When coins are to be introduced into the bank it is normally held in the upright position shown in Fig. 1. In that position the tumblers slide down upon the pins which support them in the position shown in Fig. 2. When a coin is then introduced it comes between the two rows of tumblers and rotates them about the pins that carry them and swings each set of tumblers aside. The coin may thus displace the tumblers sufficiently to permit the passage of the coin.

If the removal of the coin through the slot is attempted, the bank will usually be reversed into the position shown in Figure 3. When in that position, the tumblers rotate about their supporting pin and fall across the slot. The tumblers, some of them may actually fall within the slot. Others will fall so as completely to close the slot. The tumblers as shown in Figs. 3 and 4 are in the position which they assume when the bank is reversed. In this position the slot is completely covered and protected and no amount of shaking or other agitation will displace the tumblers sufficiently to permit the discharge or removal of any coin through the slot.

I claim:

1. In combination with a coin bank a slot having a plurality of tumblers movably

mounted within said bank and adapted when said bank is upright to swing upon contact with a coin to permit the ingress of said coin through said slot and adapted 5 when said bank is reversed to block the egress of the coin through said slot, some of said tumblers at all times extending across said slot.

2. In combination with a coin bank a slot 10 having a plurality of substantially diamond shaped tumblers movably mounted within said bank and adapted when said bank is upright to swing upon contact with a coin to permit the ingress of said coin through 15 said slot and adapted when said bank is reversed to block the egress of the coin through said slot, some of said tumblers at all times extending across said slot.

3. In combination with a coin bank having 20 a slot, a plurality of substantially diamond shaped tumblers movably mounted within said bank and adapted when said bank is upright to swing upon contact with a coin to permit the ingress of said coin through 25 said slot, and adapted when said bank is reversed automatically to assume a position to block said slot and to prevent the egress therethrough of the coin.

4. In combination with a coin bank having 30 a slot, a plurality of substantially diamond shaped tumblers movably mounted within said bank and adapted when said bank is upright to swing upon contact with a coin to permit the ingress of said coin through 35 said slot, and adapted when said bank is reversed, automatically under the influence of gravity alone to assume a position to block said slot and to prevent the egress therethrough of the coin, some of said 40 tumblers at all times extending across said slot.

5. In combination with a coin bank having 45 a slot, a plurality of tumblers rotatably and slidably mounted within said bank and adapted when said bank is upright to swing upon contact with a coin to permit the ingress of said coin through said slot and adapted when said bank is reversed to block the egress of the coin through said slot.

6. In combination with a coin bank having 50 a slot, a plurality of tumblers rotatably and slidably mounted adjacent said slot and within said bank and adapted when said bank is upright to swing upon contact with a coin to permit the ingress of said coin through said slot, and adapted when said bank is reversed, automatically to assume a position to block said slot and to prevent the egress therethrough of the coin.

7. In combination with a coin bank having 55 a slot, a plurality of tumblers rotatably and slidably mounted adjacent said slot and within said bank and adapted when said

bank is upright to swing upon contact with a coin to permit the ingress of said coin through said slot, and adapted when said bank is reversed, automatically under the influence of gravity alone to assume a position to block said slot and to prevent the egress therethrough of the coin. 65

8. In combination with a coin bank having a slot, a plurality of tumblers movably mounted adjacent said slot and within said bank and adapted when said bank is upright to assume automatically a position in 70 which they are free to swing upon contact with a coin to permit the ingress of said coin through said slot, and adapted when said bank is reversed automatically to swing to block said slot and to prevent egress 75 therethrough.

9. In combination with a coin bank having a slot, a plurality of substantially diamond shaped tumblers movably mounted within said bank and adapted when said bank is upright to swing upon contact with a coin to permit the ingress of said coin through 80 said slot, and adapted when said bank is reversed to block the egress of the coin through said slot, said tumblers provided each with a slot situated away from the center of gravity of said tumbler and adjacent one side thereof. 85

10. In combination with a coin bank having a slot, a plurality of substantially diamond shaped tumblers movably mounted adjacent said slot and within said bank and adapted when said bank is upright to swing upon contact with a coin to permit the ingress of said coin through 90 said slot, and adapted when said bank is reversed automatically to assume a position to block said slot and to prevent the egress therethrough of the coin, said tumblers provided each with a slot situated away from the center of gravity of said tumbler and adjacent one side thereof. 95

11. In combination with a coin bank having a slot, a plurality of substantially diamond shaped tumblers movably mounted adjacent said slot and within said bank and adapted when said bank is upright to swing upon contact with a coin to permit the ingress of said coin through 100 said slot, and adapted when said bank is reversed, automatically under the influence of gravity alone to assume a position to block said slot and to prevent the egress therethrough of the coin, said tumblers provided each with a slot situated away from the center of gravity of said tumbler and adjacent one side thereof. 105

12. In combination with a coin bank having a slot, a plurality of substantially diamond shaped tumblers movably mounted adjacent said slot and within said bank and adapted when said bank is upright to swing upon contact with a coin to permit the ingress of said coin through 110 said slot, and adapted when said bank is reversed, automatically under the influence of gravity alone to assume a position to block said slot and to prevent the egress therethrough of the coin, said tumblers provided each with a slot situated away from the center of gravity of said tumbler and adjacent one side thereof. 115

13. In combination with a coin bank having a slot, a plurality of tumblers rotatably and slidably mounted adjacent said slot and within said bank and adapted when said bank is upright to swing upon contact with a coin to permit the ingress of said coin through 120 said slot, and adapted when said bank is reversed, automatically under the influence of gravity alone to assume a position to block said slot and to prevent the egress therethrough of the coin, said tumblers provided each with a slot situated away from the center of gravity of said tumbler and adjacent one side thereof. 125

Signed at Chicago, county of Cook, and State of Illinois, this 14th day of November, 1921.

ARTHUR C. PRINCE.