



F. W. LANCASTER.  
 REGISTERING CONTRIBUTION BOX.  
 APPLICATION FILED NOV. 30, 1918.

1,348,012.

Patented July 27, 1920.

4 SHEETS—SHEET 2.

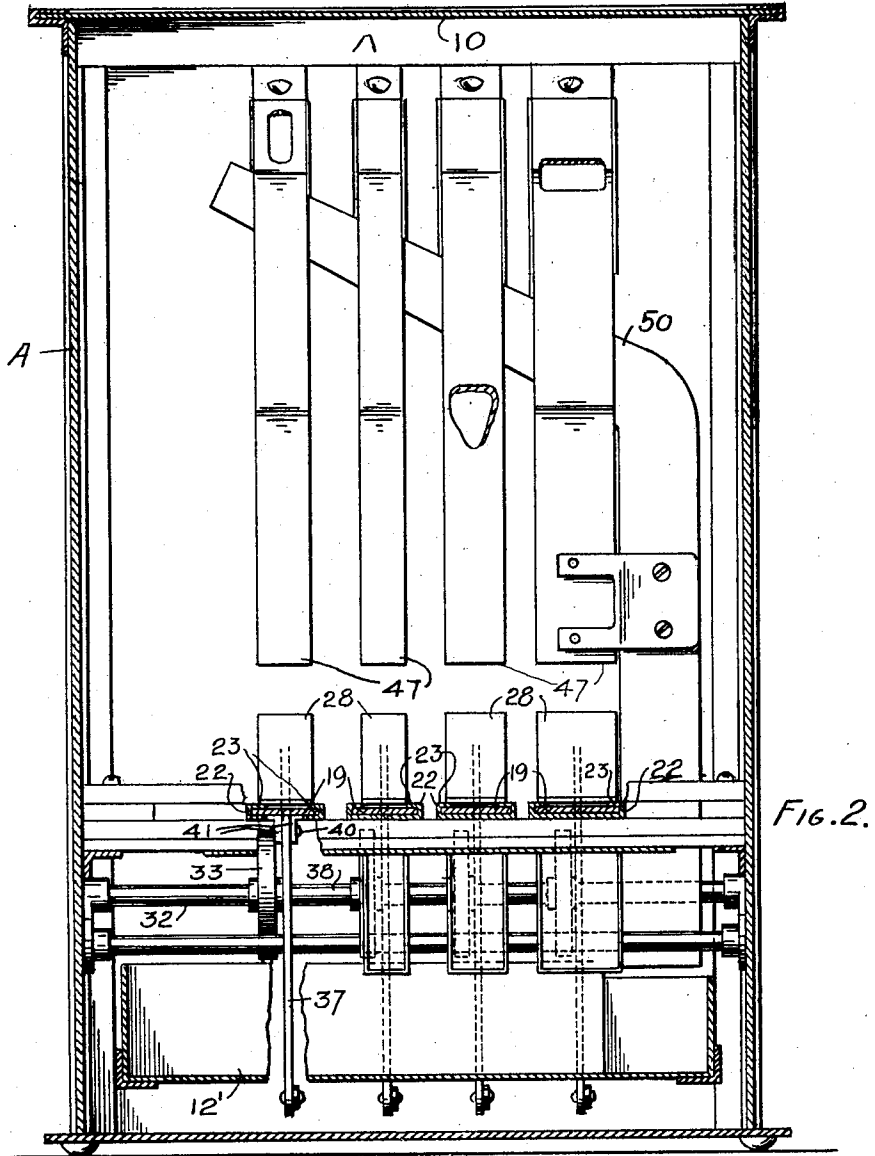


FIG. 2.

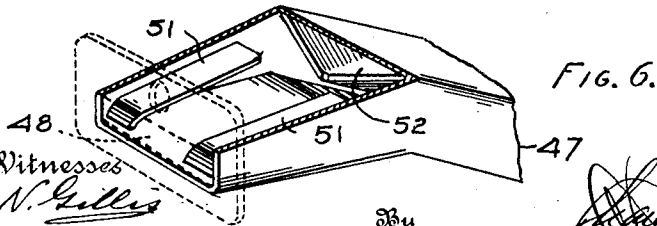


FIG. 6.

Witnesses  
*L. N. Gillis*

384

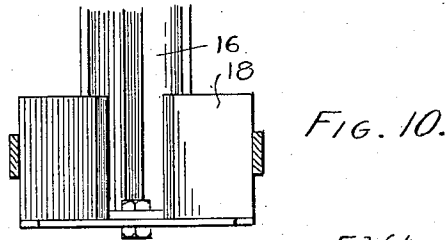
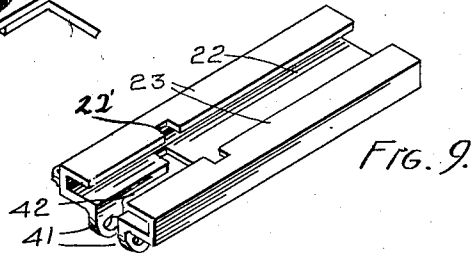
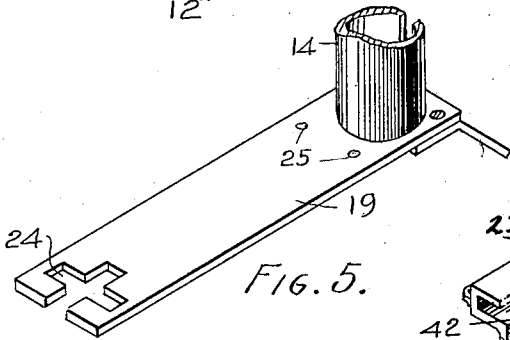
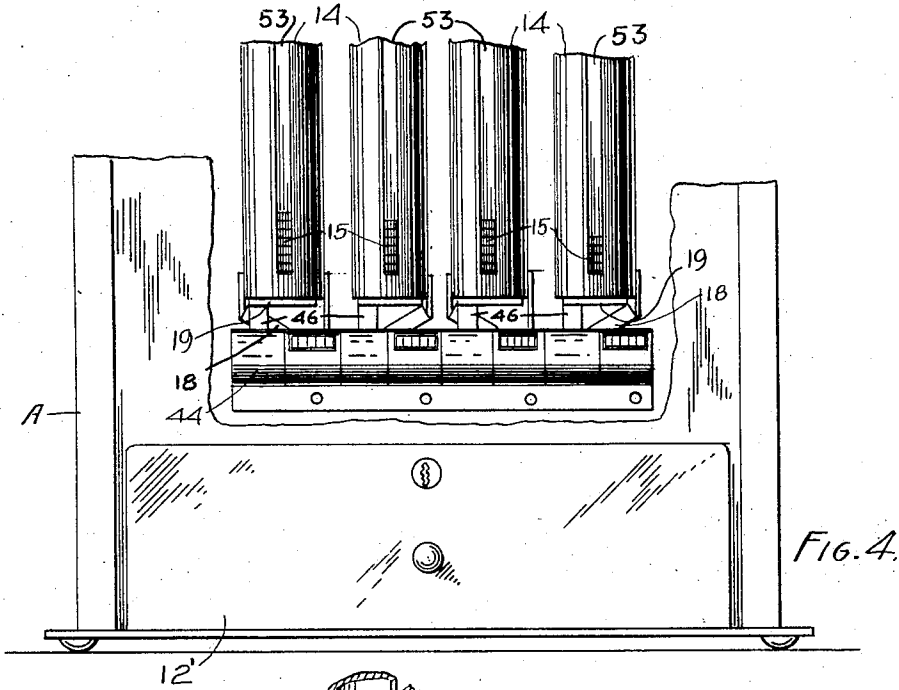
Inventor  
*F. W. Lancaster,*  
*[Signature]*  
 Attorney

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4 SHEETS—SHEET 3.



Witnesses  
*L. N. Gullis*

By

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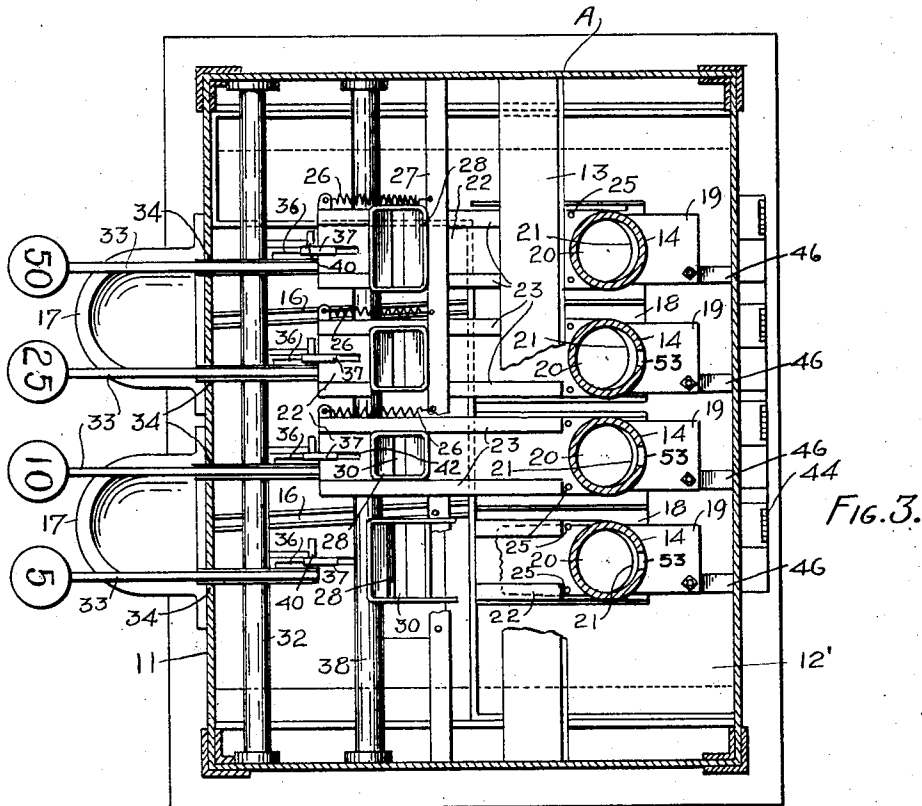


FIG. 3.

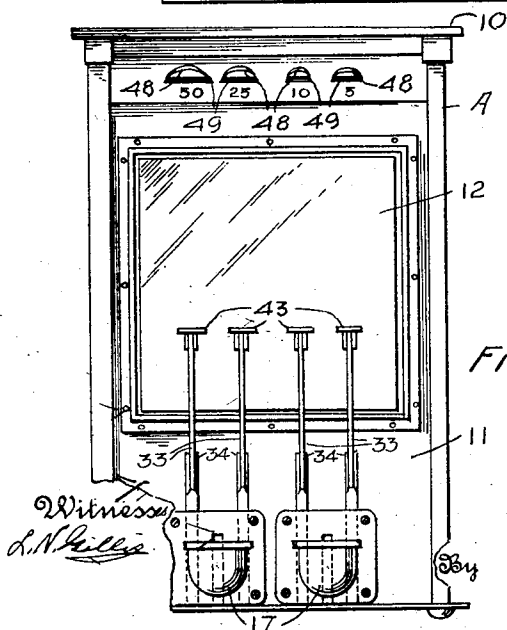


FIG. 7.

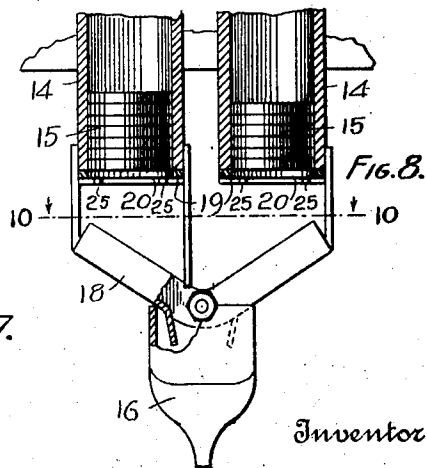


FIG. 8.

Inventor

F. W. Lancaster,

*[Signature]*  
 Attorney

# UNITED STATES PATENT OFFICE.

FRANK W. LANCASTER, OF PHILADELPHIA, PENNSYLVANIA.

REGISTERING CONTRIBUTION-BOX.

1,348,012.

Specification of Letters Patent.

Patented July 27, 1920.

Application filed November 30, 1918. Serial No. 264,790.

*To all whom it may concern:*

Be it known that I, FRANK W. LANCASTER, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia, State of Pennsylvania, have invented certain new and useful Improvements in Registering Contribution-Boxes; 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.

The invention relates to a check controlling apparatus and more particularly to the class of registering contribution boxes.

The primary object of the invention is, the provision of an apparatus of this character, wherein are held checks indicative of receipts of predetermined denominations of coins, which when deposited, will effect the automatic delivery of a receipt therefrom, thereby placing in the hands of the depositor an acknowledgment of the coin of a predetermined denomination when deposited within the apparatus, the apparatus being designed for use as a collector for dues, contributions or the like, for religious societies, churches, associations or other organizations.

Another object of the invention is, the provision of an apparatus of this character, wherein on the deposit of coins of predetermined denominations it will register or tally the same to determine the amount deposited within the apparatus, the construction being novel in form to avoid tampering therewith and eliminate the possibility of operating said apparatus by the use of spurious coins or slugs.

A further object of the invention is, the provision of an apparatus of this character, which is comparatively simple in construction, thoroughly reliable and efficient in its operation for the purpose intended thereof, strong, durable and inexpensive to manufacture.

With these and other objects in view, the invention consists in the features of construction, combination and arrangement of parts as will be hereinafter fully described, illustrated in the accompanying drawings and pointed out in the claims hereunto appended.

In the accompanying drawings:

Figure 1, is a vertical transverse sectional

view through the apparatus or box, constructed in accordance with the invention.

Fig. 2, is a vertical longitudinal sectional view thereof.

Fig. 3, is a sectional view on the line 3—3 of Fig. 1, looking in the direction of the arrow.

Fig. 4, is a fragmentary rear elevation partly broken away.

Fig. 5, is a detail perspective view of the receipt check controlling slide and adjunct parts.

Fig. 6, is a fragmentary perspective view of one of the coin chutes same being partly broken away.

Fig. 7, is a front elevation.

Fig. 8 is a fragmentary detailed vertical sectional view through several of the check containing columns or holders.

Fig. 9, is a perspective view of the slide controlling plunger, the slide removed.

Fig. 10, is a sectional view on the line 10—10 of Fig. 8, looking in the direction of the arrow.

Similar reference characters indicate corresponding parts throughout the several views in the drawings.

Referring to the drawings in detail, A designates generally a casing which has a removable slide top 10 and on the front wall 11 is supported a mirror 12, the casing A being preferably constructed from metal and its front, sides, back, bottom and top being assembled and connected together in any suitable manner. Removable through the back of the casing A and suitably supported within said casing, spaced from the bottom is a coin deposit drawer 12' which is locked or otherwise held closed against detachment from the casing for malicious access thereto and is preferably substantially L-shape in formation so as not to interfere with the operating parts of the check controlling mechanism, hereinafter fully described.

Mounted in the upper portion of the casing A, transversely thereof, are horizontal braces 13, supporting a plurality of vertical spaced parallel tubes or columns 14 constituting chambers for receipt checks which are stacked therein and are grouped according to the particular denominations indicative of the coins deposited within the apparatus or box. The upper ends of the tubes 14 are open and the same are filled

therethrough with the checks 15 on the removal of the top 10 from the casing A, while the lower ends of these tubes are likewise open for the delivery of the checks 5 therefrom, in a manner presently described.

Arranged below the delivery ends of the tubes 14 and forwardly inclined and opening through the front 11 of the casing A are check delivery chutes 16 which communicate at their lower ends with receiving cups 10 17 which are carried by the front 11, and rising from the rear ends or higher portions of the chutes 16 are hoppers 18 which are accessible to pairs of the tubes 14 so 15 that the checks from the several tubes will be delivered into the chutes for the feeding thereof by gravity into the cups 17 to be accessible to the depositor.

Located immediately below each tube 14 20 is a horizontally disposed check controlling slide 19 which is formed with an opening 20 corresponding to the size of the checks 15 and normally registering with the bore of the tube 14 for accommodating the lowermost check therein which latter is held in 25 the opening 20 by a retarding ledge 21 fixed across the rear side of the tube below the slide 19 so that the check will not fall from the slide until it has been carried forward off 30 of the ledge. The slide 19 is fitted slidably within a plunger 22 which is in the form of a plate having side guide cleats and inturned flanges 23 engaging the edges of the slide 19, the plunger being movable independently of and with the slide 19, in a manner 35 presently described.

Formed in each slide 19 near the forward end is a cross shaped slot 24, the transverse portion of which is adapted to receive a 40 coin admitted into the casing A, the plunger 22 being slotted through its bottom and notched in its flanges over the ends of the slot as at 22' to accommodate said coin 45 when the slide 19 and plunger 22 are in normal position. The slide 19 is formed with depending pins or abutments 25 so that when the plunger is moved outwardly or forwardly and returns to normal position, the same will act upon the slide to move it 50 therewith to normal position, the slide and plunger being held in normal position under the action of a coiled retractile spring 26 connected with the front end of the plunger and to a guide bridge piece 27, in the casing 55 A. Mounted on and rising from each plunger is a coin receiving funnel 28 which registers with the slot and notches 22' in said plunger and introduces the coin 29 into the slot 24 in the slide, which coin locks the 60 plunger and slide together for movement with each other. Mounted on the bridge piece 27 and extending forwardly is a rest plate 30 for the coin 29 in each slide to prevent it dropping therethrough until the 65 coin has been moved off of the rest plate 30

for the delivery thereof into a delivery trough 31 for each of the slides 19 to deliver the deposited coin into the drawer 12', the trough 31 being supported in any suitable manner below the rest plate 30 in the casing 70 A of the apparatus.

Journaled transversely in the casing A, adjacent to the front 11 is a shaft 32 on which are supported operating keys 33 which extend outwardly through suitable 75 slots 34 exteriorly of the casing A to be manually depressed, and each key controls a rocking lever 35 connected by a link 36 with a rocking actuator arm 37 which is supported upon a countershaft 38 journaled 80 transversely in the casing A below the plunger 22, the arm 37 being formed with a longitudinal slot 39. Received and working therein is a pin 40 mounted in pivot ears 41 formed on the front end of the plunger 85 22 which between the ears 41 is cut away at 42 to allow movement of the arm 37, and this arm controls the action of the plunger.

The keys 33 are formed with buttons or heads 43 the same being marked with indicia 90 indicative of the denominations of the respective coins deposited within the apparatus, and likewise the checks 15 in their groups are correspondingly designated to the denominations of coins deposited and 95 constitute receipts therefor, when delivered from the apparatus.

Mounted in the casing A at the back thereof for each of the slides 19 is a registering mechanism 44 which is visible from the 100 rear of the apparatus and is of any approved form, the operating arm or member 45 of which is projected into the path of a trip extension 46 on the rear end of the slide 19, so that on movement of the slide 105 for the delivery of a check 15 from the apparatus the register 44 will be actuated for the counting or tallying of the checks delivered from said apparatus.

Opening through the front 11 of the casing A near the top thereof, is a series of 110 coin deposit chutes 47, the coin being admitted thereto through the coin slot 48 in the offset angular portion 49 of the front 11, and each chute 47 extends downwardly 115 directly over the funnel 28 for delivering the coin 29 therein on its deposit within the apparatus. Each chute 47 opens into a deflector chute 50 which extends laterally and downwardly directly over the drawer 120 12 so that in the event of a spurious coin or slug being introduced into the apparatus it will be deflected into the deflector chute 50 and travel directly to the drawer 12' but 125 will be ineffective for the successful operation of the apparatus. Arranged within the end portion of each chute 47 are coin gaging tracks 51 which carry legitimate coins into the deposit runway 52 in the chute 47 for effecting the operation of the 130

machine, and spurious or unqualified coins deposited in the apparatus A will drop into the deflector chute 50 to be ineffective for the operation of the apparatus.

5 The apparatus in this instance is constructed for the deposit of coins of the five cent, ten cent, twenty-five cent and fifty cent denominations, yet the apparatus may be changed or altered for the deposit of  
10 other coins or different denominations. The checks 15 in the plurality of tubes 14 are correspondingly marked and indicative of the coins of the specified denominations and serve as receipts for the deposit thereof in  
15 the apparatus.

When no coin has been deposited in the apparatus and any one of the keys is pressed, the plunger 22 controlled thereby will move upon its slide 19 without moving  
20 the latter so that a check 15 will not be delivered from the apparatus. On the deposit of a coin 29 of a predetermined denomination, the same when inserted in the slot 48, will gravitate down the chute 47 into the  
25 funnel 28 drop into the slot 24 in the slide 19 and slot 22' in the plunger as shown in Fig. 1 of the drawings and come to rest upon the rest plate 30, thereby locking the plunger 22 to the slide 19; and upon de-  
30 pressing the key 33 controlling the said plunger, the same and the slide will be moved forward simultaneously, extracting the check 15 in the opening 20 in said slide from the group of checks standing in the  
35 tube 14. When the check removed by the slide rides off of the ledge 21, it will fall into the hopper 18, thence into the delivery chute 16 which carries the same into the cup 17 for possession thereof by the oper-  
40 ator of the apparatus. On the simultaneous movement of the plunger 22 and the slide 19 for the ejecting of the check 15, the coin 29 will ride off of the rest plate 30 and drop into the trough 31 and thence into the  
45 drawer 12'. The actuation of the slide 19 operates the register 44 for registering the deposit of the coin in the apparatus.

When the coin has been deposited and pressure is relieved from the key 33, the slide 19 and the plunger 22 under the ac- 50  
tion of the spring 26 return to normal position, and a check 15 enters the opening 20 in said slide for subsequent delivery from the apparatus on the deposit of another  
55 coin therein.

Each tube 14 is formed with a longitudinal slot 53 to permit a person to determine the number of checks therein.

From the foregoing it is thought, that the construction and manner of operation of 60  
the apparatus will be clearly understood, and therefore a more extended explanation has been omitted.

What is claimed is:

In an apparatus of the character de- 65  
scribed, the combination with a fixed upright tube for checks having a retarding ledge across the rear side of its lower end, a chute beneath the latter leading to a de-  
70 livery cup, and a coin chute forward of the tube; of a bridge having a guide forward of the lower end of the tube, a plunger slid-  
able in said guide and having cleats rising from its edges and turned inward into  
75 flanges, the plunger having a transverse coin slot in its bottom and the flanges having  
notches over the ends of said slot, a spring moving the plunger normally rearward  
against said tube, manually operable mechanism for moving the plunger forward, a  
80 funnel carried by the plunger and standing normally beneath said coin chute, a rest  
plate carried by the bridge and extending forward beyond said slot, and a slide guided  
within said plunger and having a coin slot  
85 registering with the slot thereof and a check opening registering with the bore of the tube.

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

FRANK W. LANCASTER.

Witnesses:

A. R. ROBINSON,  
G. B. SOLOMON.