Sept. 6, 1927. 1,641,884

J. M. FERNANDEZ

TICKET DISPENSING APPARATUS

Filed Aug. 10, 1925 2 Sheets-Sheet 1

Fig. 1.

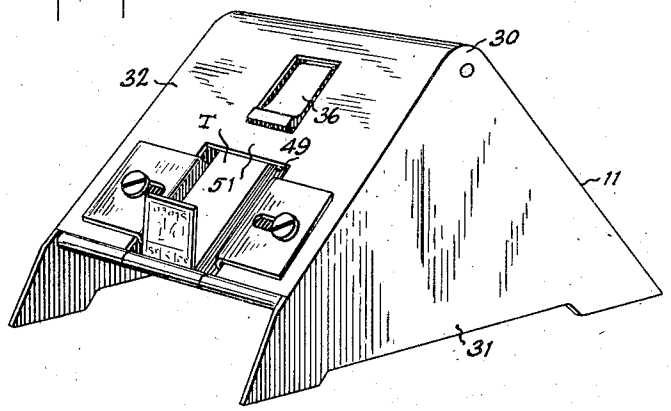


Fig. 5.

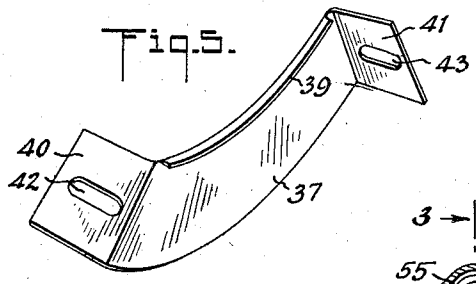


Fig. 4.

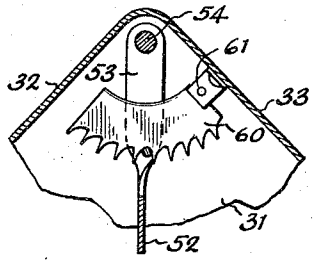
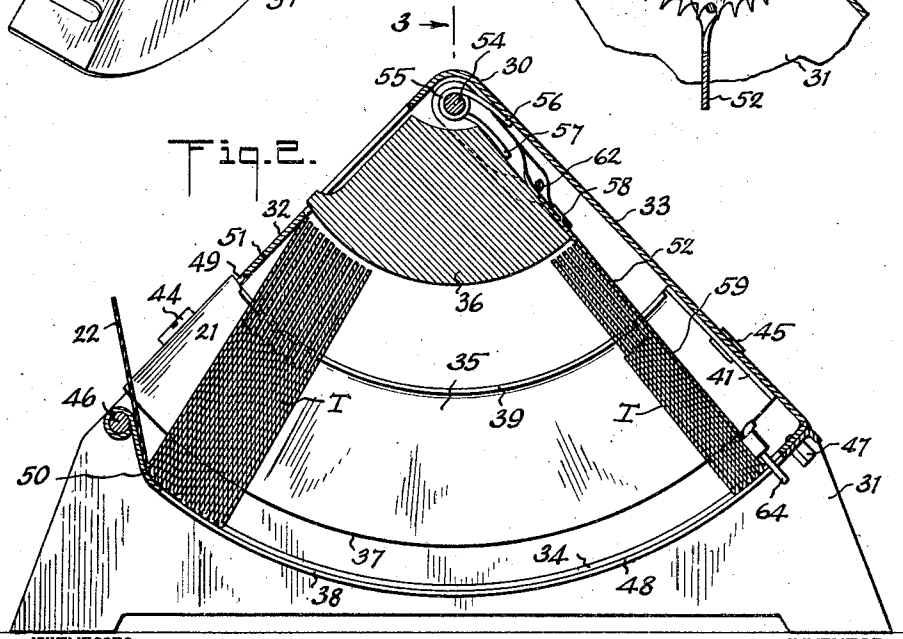


Fig. 2.



WITNESSES

C. Frank.

Chris Feinle

3

INVENTOR

JOHN M. FERNANDEZ

BY Munn & Co

ATTORNEYS

Sept. 6, 1927. 1,641,884

J. M. FERNANDEZ

TICKET DISPENSING APPARATUS

Filed Aug. 10, 1925 2 Sheets-Sheet 2

Fig. 5.

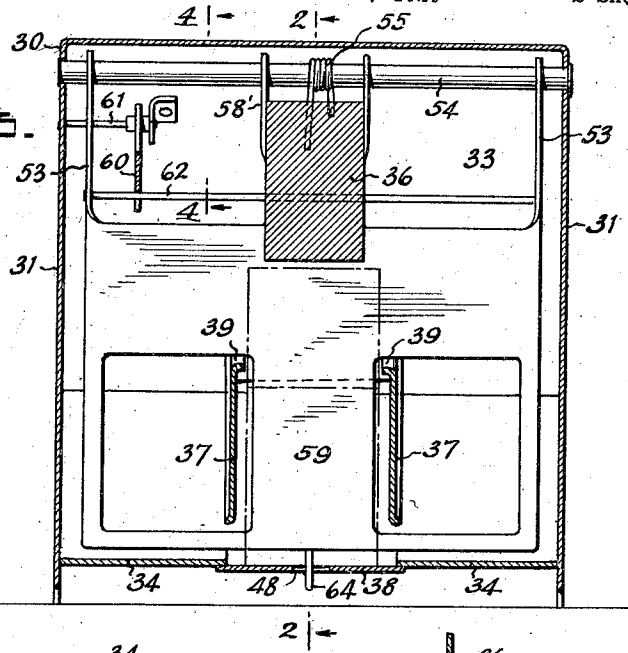


Fig. 6.

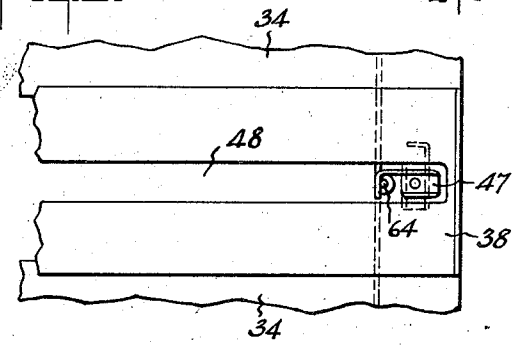


Fig. 8.

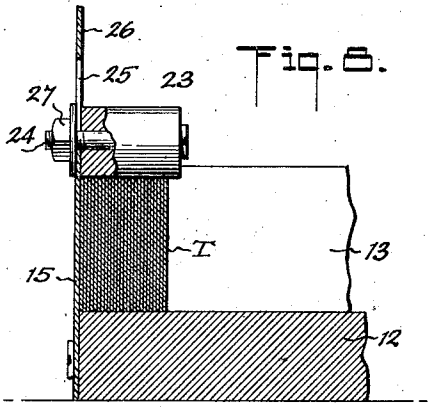
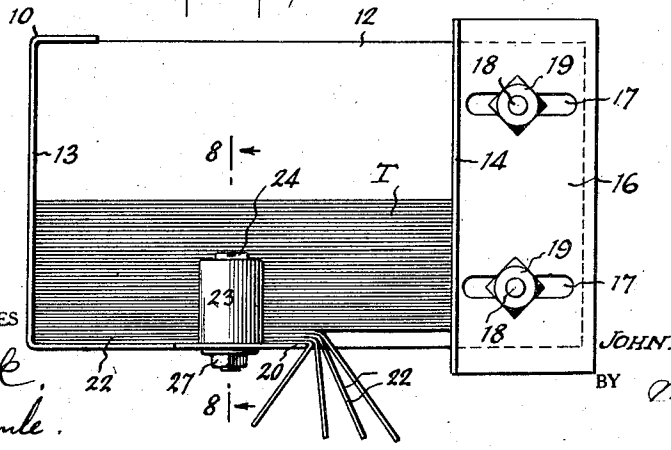


Fig. 7.



WITNESSES

Chris Leinle.

INVENTOR

JOHN M. FERNANDEZ

BY Munn & Co

ATTORNEYS

Patented Sept. 6, 1927. 1,641,884

UNITED STATES PATENT OFFICE.

JOHN M. FERNANDEZ, OF NEW YORK, N. Y.

TICKET-DISPENSING APPARATUS.

Application filed August 10, 1925. Serial No. 49,470.

This invention relates to apparatuses for dispensing tickets such as are dispensed in public places such as restaurants.

The prime object of the present invention is the production of an apparatus which includes a device for putting tickets in a condition to be receivable in a dispensing device and to be maintained in such device so that one ticket at a time may be conveniently and easily removed.

Another object of the invention is the production of a device so characterized as to hold a multiplicity of tickets in a folded condition, each ticket having a long portion and a short portion, the tickets being arranged in stack formation in a magazine, the tickets being presented one at a time to an opening through which the tickets one at a time are removed by grasping the short portion of each ticket, which will be disposed in a manner permitting the same to be grasped by virtue of means adjacent the opening.

Another object of the invention is the production of a ticket dispensing device having the characteristics mentioned, which will be comparatively inexpensive, reliable in operation, and which will accommodate tickets of different sizes as to width, and which will be comparatively simple of construction.

With the foregoing, other objects of the invention will appear from the embodiment of the invention, which, by way of example is described in the following specification and illustrated in the accompanying drawings, in which:

Figure 1 is a perspective view of the dispensing device of the apparatus of the present invention.

Fig. 2 is a central longitudinal sectional view through the device shown in Fig. 1 and taken substantially on the line 2—2 of Fig. 3.

Fig. 3 is a transverse sectional view taken substantially on the line 3—3 of Fig. 2.

Fig. 4 is a detail sectional elevation showing the means employed for preventing retrograde movement of the means employed for continuously acting on the stack of tickets.

Fig. 5 is a perspective view of one of the adjustable side plates of the magazine.

Fig. 6 is a fragmentary view of the bottom of the magazine and adjacent portions of the casing showing a detail of the means employed for holding the follower.

Fig. 7 is a plan view of a device employed for folding the tickets.

Fig. 8 is a detail sectional view taken substantially on the line 8—8 of Fig. 7.

The apparatus of the present invention essentially consists of two devices, a device 10 for folding the tickets and a device 11 containing the tickets in their folded condition for the dispensing thereof.

Since it is necessary to take ordinary tickets of oblong shape having the usual index number, amount of purchase numbers and the name of the particular restaurant, and fold each of the tickets with a similar fold, the device 10 will be described first. The said device 10 includes a base 12, end members 13 and 14, and a side member 15. The end member 13 and side member 15 in the present instance consists of a single piece of material which is attached in any suitable manner to the base 12. The end member 14 includes a part 16 having slots 17 therein which respectively accommodate studs 18, each of the studs having threaded thereon a nut 19. By virtue of the slots 17, studs 18 and nuts 19, the end member 14 can be adjusted with respect to the end member 13 to accommodate therebetween tickets, such as the tickets T, of different lengths. The side member 15 terminates between the end members 13 and 14, as shown most clearly in Fig. 7. By grasping the bunch of tickets with the left hand and by taking hold of three or more tickets with two fingers and thumb of the right hand. the tickets grasped may be bent against the edge 20 of the side member 15. This manner of bending the tickets will provide each with a long portion 21 and a short portion 22, and at this time attention is called to the fact that each of the tickets is inherently flexible, the reason therefor will appear hereinafter. In order to prevent the tickets being folded from moving upwardly, there is provided a member 23 which is carried by a bolt 24. The bolt 24 extends through a slot 25 in an extension 26 on the side member 15. A nut 27 serves for maintaining the member set in different positions, according to the width of the tickets being folded.

The device 11 in which the tickets are maintained in stack formation and from which the tickets are removed one at a time,

in the present embodiment, consists of the parts and functions in the manner presently to be described. The device includes a casing 30 consisting of sides 31, a front 32, back 33, and bottom sections 34 which extend inwardly respectively from the sides 31. In the present instance the casing 30 through its longitudinal axis is of triangular shape and the sections 34 are arcuate. Provided interiorly of the casing 30 is a ticket magazine 35 which consists of a top 36 in the nature of a segment, side member 37, and a bottom member 38. The top 36 is movable owing to the manner in which it is supported, which will be explained. Each of the side members 37 is arcuate and is formed to provide a flange 39 and wings 40 and 41 respectively at the opposite end. The wing 40 is provided with a slot 42, and the wing 41 is provided with a slot 43. Each side member 37 is secured in place by the use of fastening elements such as screw bolts 44 and 45 which pass through the slots 42 and 43 respectively; the screw bolt 44 entering holes in the front 32 and the screw bolts 45 entering holes in the back 33 of the casing. It will now be understood that the side members 37 are adjustable with respect to each other to accommodate therebetween tickets of different widths. The bottom member 38 is arcuate and is hingedly connected as at 46 at one end, is arranged between the bottom members 34, and the opposite end is detachably held by the use of a turnable member 47 carried by the inturned lower end of the back 33. The bottom member 38 has a longitudinal slot 48. In one position of the member 47 as shown in Fig. 6, the bottom member 38 may be moved on its hinge to an open position, and when the member 47 is in the position shown in dotted lines, the bottom member will be held in its closed position. The magazine is loaded with the tickets by simply moving the bottom member 38 to an open position. It is to be noted that the tickets are disposed in a fan-like formation due to the construction of the parts of the magazine, and it will be apparent that it makes possible the use of a comparatively small outer casing, such as the casing 30, the front 32 of which is disposed at an angle for the convenient presentation of the tickets to the opening 49 in the front 32. The opening 49 coincides with the front end of the magazine 35. In order to act upon each ticket as it is advanced so that the short portion 22 may assume a position at an angle with respect to the long portion 21 as shown in Figs. 1 and 2, and in order to prevent the foremost ticket or tickets from being ejected through the opening 49, the bottom member 38 is formed with an abutment 50 adjacent the opening 49. The abutment 50 and the portion 51 of the front 32 combine in the obtainment of the results just mentioned. In order to aid in the maintenance of the tickets in stack formation there is provided a radially movable follower means which consists of a plate 52 swingingly mounted by virtue of arms 53 loosely connected to the transverse shaft 54 supported by the sides 31; there being employed a spring 55 which encircles the shaft 54 and has one end thereof in engagement with the back 33 as at 56 and the opposite end thereof in engagement with the segment 36 as at 57. It has been before stated that the segment 36 is movable and this is so because it is attached as at 58 to a portion of the plate 52. The central portion 59 of the plate 52 is adapted to lie in contact with the innermost ticket of the stack and traverses the magazine to advance the stack as it is diminished by the removal of the outermost ticket by virtue of the influence of the spring 55. It is therefore to be understood that means is provided for continuously acting on the tickets to keep the outermost ticket in engagement with the abutment 50 which will assume the position shown in Fig. 2. In order to prevent the retrograde movement of the plate 52 and so as to insure a ticket being held at the opening, there is provided a toothed member 60 which is pivotally connected as at 61 and the teeth of this member 60 coact with a member 62 supported by the arms 53.

In loading the magazine the member 47 which has a hook 63, when moved to the position shown in full lines in Fig. 6, may have the hooks 63 engage a member 64 carried by the plate 52 to hold the plate from being moved by the spring 55.

From the foregoing it will be apparent that there has been described a device for folding ordinary stock tickets uniformly to be used in a second device for presenting them successively for their removal one at a time; that the removal of a ticket is accomplished by grasping the short portion 22 and by pulling upwardly and outwardly thereon, will cause the long portion 21 to flex due to the fact that its upper end will engage the under face of the segment 36 and allowing thereby the ticket to be withdrawn through the opening 49.

In order to insure the proper feeding action of the tickets in spite of any of the short portions being folded slightly projecting from the side edges of the long portions, there has been provided the flanges 39 which guide the upper ends of the folded tickets while the bottom member 38 guides the lower edges of the tickets, there being sufficient space provided between the side members 37 to accommodate the projecting edges of the short portions.

It is to be understood that the invention is not restricted to the precise arrangement of parts shown and described as details of construction may be modified and rear-

ranged without departing from the spirit of the invention, the scope of which is limited only by the terms of the appended claims.

I claim:

1. A ticket dispensing device comprising a magazine in which may be arranged a multiplicity of tickets in stack formation, relatively adjustable plates each having a flange, the flanges of said plates providing guides for said tickets, retaining means at one end of the stack which acts on each of the tickets presented thereto to temporarily retain each ticket so that it may be grasped for the removal of the ticket from the retaining means, and means which continuously acts on the stack of tickets to present one ticket at a time to the retaining means.

2. A ticket dispensing device comprising a magazine for maintaining therein a multiplicity of tickets in stack formation, said magazine comprising side plates which maintain the tickets against lateral displacement, a hingedly connected bottom on which the tickets rest, there being an opening at one end of the magazine; means on the bottom adjacent the opening which acts on each ticket to prevent the same from being ejected through the opening and which causes the ticket to be disposed so that the same may be grasped for its removal through said opening, means moving in a circular path which acts continuously on the back of the stack to present one ticket at a time by said last mentioned means.

3. A ticket dispensing device comprising a magazine for maintaining therein a multiplicity of tickets in stack formation, said magazine comprising a top, arcuate side plates, and an arcuate bottom, there being an opening at one end of said magazine through which one ticket at a time is withdrawn; an abutment on said bottom against which the end of each ticket is presented to cause it to be disposed so that it may be grasped for removal through said opening, and follower means continuously acting on the stack of tickets to feed one ticket at a time to the abutment.

4. A ticket dispensing device comprising a magazine for maintaining therein a multiplicity of tickets in stack formation, said magazine comprising a top, arcuate side plates, and an arcuate bottom, there being an opening at one end of said magazine through which one ticket at a time is withdrawn; an abutment on said bottom against which the end of each ticket is presented to cause it to be disposed so that it may be grasped for removal of the ticket through said opening, and follower means moving in a curved path and continuously acting on the stack of tickets to feed one ticket at a time to the abutment.

5. A ticket dispensing device comprising a magazine for maintaining therein a multiplicity of tickets in stack formation, said magazine comprising a top, arcuate side plates, and an arcuate bottom, there being an opening at one end of said magazine through which one ticket at a time is withdrawn; an abutment on said bottom against which the end of each ticket is presented to cause it to be disposed so that it may be grasped for removal through said opening, follower means moving in a curved path continuously acting on the stack of tickets to feed one ticket at a time to the abutment, and means for preventing the retrograde movement of the follower means.

6. A ticket dispensing device comprising a magazine in which may be arranged a multiplicity of tickets in stack formation, said magazine including means for maintaining the stack of tickets against lateral displacement, retaining means at one end of the stack which acts on each of the tickets presented thereto to temporarily retain each ticket disposed so that it may be grasped for removal from the retaining means, a pivotally mounted plate disposed to act on the stack of tickets, means causing said plate to continuously exert pressure on the stack of tickets to present one ticket at a time to said retaining means, and means preventing the retrograde movement of said plate.

7. A ticket dispensing device comprising a magazine in which may be arranged a multiplicity of tickets in stack formation, said magazine including means for maintaining the stack of tickets against lateral displacement, retaining means at one end of the stack which acts on each of the tickets presented thereto to temporarily retain each ticket disposed so that it may be grasped for removal from the retaining means, a pivotally mounted plate disposed to act on the stack of tickets, means causing said plate to continuously exert pressure on the stack of tickets to present one ticket at a time to said retaining means, and a pivotally mounted member having teeth which coact respectively with a member carried by said plate preventing the retrograde movement of said plate.

JOHN M. FERNANDEZ.