

Aug. 27, 1940.

A. B. HASSAN
DISCOUNT MACHINE

2,212,499

Filed March 29, 1939

3 Sheets-Sheet 1

Fig. 3.

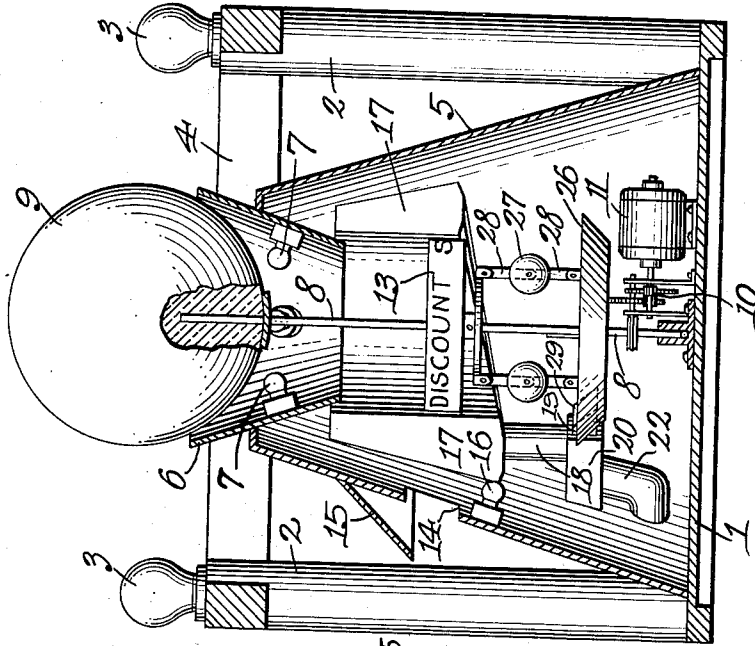
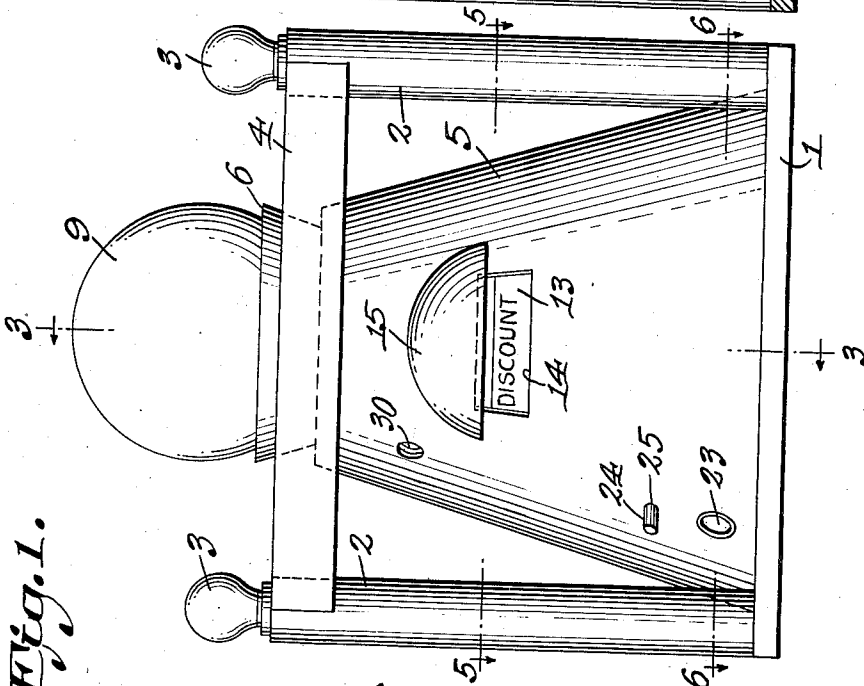


Fig. 1.



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Fig. 4.

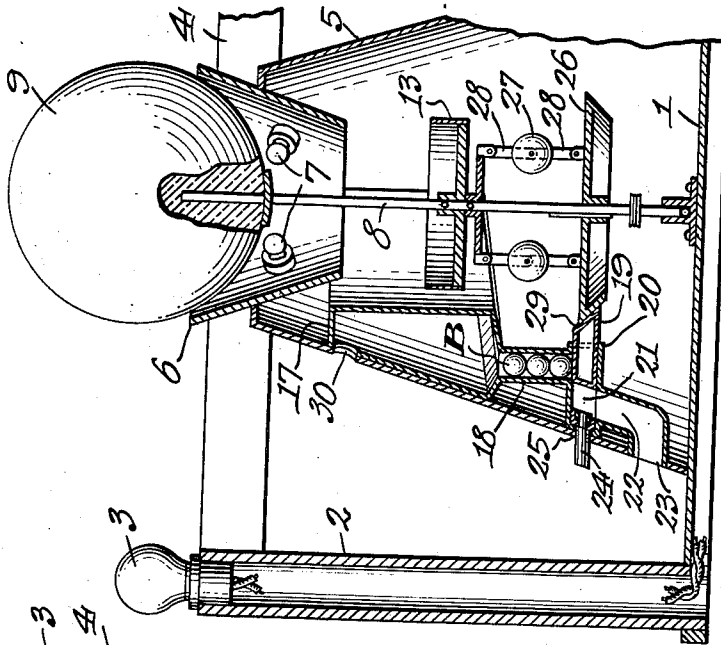
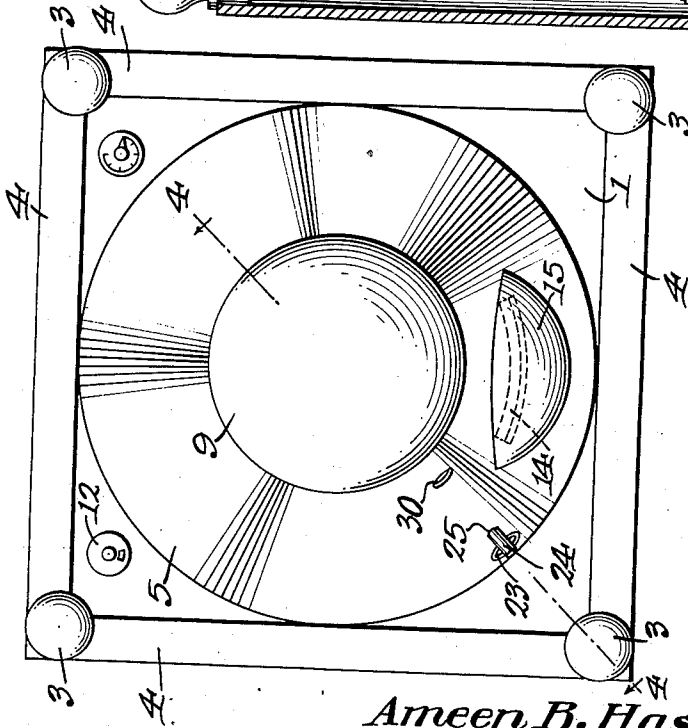


Fig. 2.



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Fig. 6.

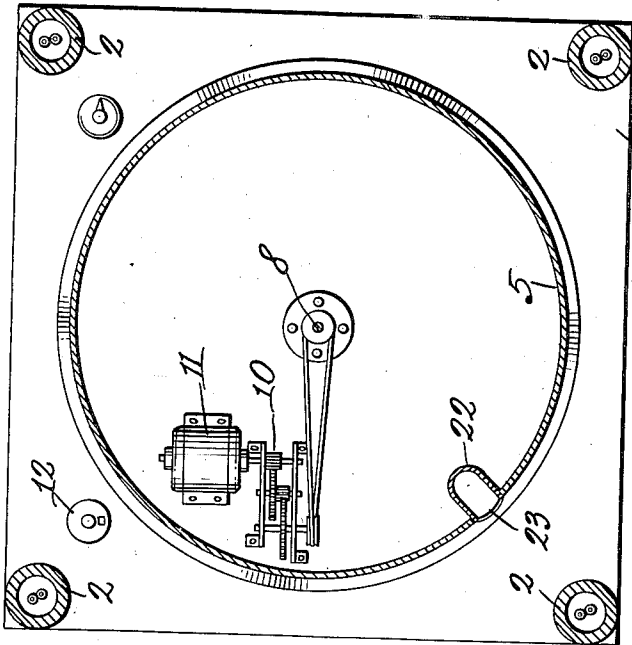


Fig. 5.

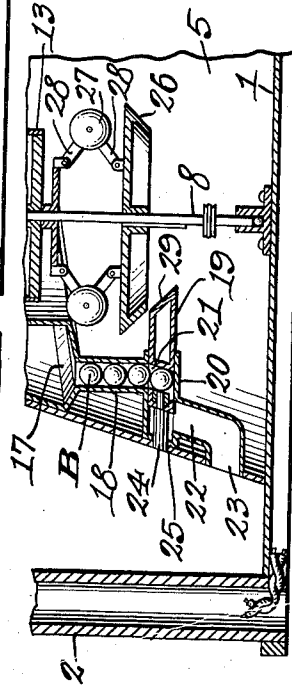
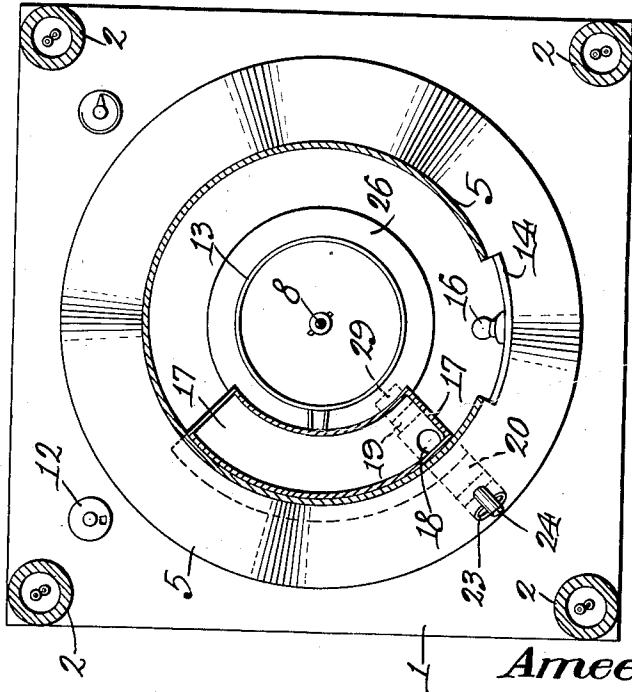


Fig. 7.

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UNITED STATES PATENT OFFICE

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DISCOUNT MACHINE

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Application March 29, 1939, Serial No. 264,853

2 Claims. (Cl. 312-49)

This invention relates to a machine whereby a customer can receive a token following the completion of a sale, it being designed to provide tokens having a sales or exchange value to the customer.

It is a further object to provide a machine of this character which can be operated only at the will of the salesman.

A still further object is to provide a machine of this character which can be compactly made and easily located on a counter or showcase where it will provide an attractive asset, valuable as an advertising or display medium.

With the foregoing and other objects in view which will appear as the description proceeds, the invention consists of certain novel details of construction and combinations of parts hereinafter more fully described and pointed out in the claims, it being understood that changes may be made in the construction and arrangement of parts without departing from the spirit of the invention as claimed.

In the accompanying drawings the preferred form of the invention has been shown.

In said drawings

Figure 1 is a front elevation of the machine.

Figure 2 is a plan view thereof.

Figure 3 is a section on line 3-3, Figure 1.

Figure 4 is a section on line 4-4, Figure 2.

Figure 5 is a section on line 5-5, Figure 1.

Figure 6 is a section on line 6-6, Figure 1.

Figure 7 is a vertical section through a portion of the apparatus showing the relative positions of the parts when the apparatus is in operation and unlocked to permit release of a token following actuation by the customer.

Referring to the figures by characters of reference 1 designates a base of any suitable size and shape on which are erected any desired number of posts 2 which can be utilized for supporting lamps 3 wired in the usual manner. These posts can be connected at their upper ends by strips 4 as shown.

Mounted on the base between the posts is a housing 5 which can be frusto-conical or of any other desired shape and, in the structure illustrated, this housing has an inverted tapered sleeve 6 in its upper end in the lower portion of which can be located electric lamps 7 suitably wired.

A shaft 8 is journaled in the housing and is provided at its upper end with a ball 9 formed of glass or other suitable transparent or translucent material and adapted to rotate with the shaft. This ball has a portion thereof sur-

rounded by sleeve 6 but the upper portion thereof is exposed so that when the ball is illuminated by the lamps 7 and is rotated with shaft 8, it will constitute a means for attracting attention of customers, this being particularly true should the ball be of various colors or suitably ornamented.

Shaft 8 is adapted to be driven through speed reduction gearing 10 by an electric motor 11 located on the base 1 and within housing 5. The circuit to this motor is controlled by a switch 12 outside of the housing where it can be reached and operated readily by the salesman.

A rotary sign 13 can be secured to shaft 8 so as to rotate therewith and this sign is located where it can be viewed through an opening 14 provided in casing 5 and which opening is preferably positioned below a shield 15 extending from the casing. A lamp 16 can be mounted within the casing adjacent to the opening for the purpose of illuminating the sign so that the data displayed thereon can be seen readily by the customer while looking through the opening 14. This data can be in the form of a printed message, pictures or any other display.

A container 17 is secured within the upper portion of the casing 5 and has its bottom inclined downwardly to an outlet tube 18 which terminates above and close to a slide 19 mounted in a guide 20. This slide has an opening 21 extending therethrough of sufficient size to hold a single token of the type used in the machine and under normal conditions the slide is located with opening 21 in communication with a delivery tube 22 the lower end of which opens through casing 5 adjacent the bottom thereof to provide an outlet 23. Slide 19 has a stem 24 projecting therefrom and slidable in an opening 25 in the casing adjacent to outlet 23 and when opening 21 is in its normal position in communication with delivery tube 22, this stem 24 projects outwardly from the casing as shown for example in Figure 1. With slide 19 positioned as described, the inner portion of the slide acts as a closure for the lower end of the tube 18, as shown in Figure 4.

In the structure illustrated balls B are used as tokens and a number of these are adapted to be placed in the container 17 so that they will gravitate toward and move successively into the tube 18 where they will be supported one upon the other by the slide 19 while said slide is in its normal position as in Figure 4.

When the stem or plunger 24 is pushed inwardly the opening 21 in slide 19 is moved out of line with the tube 22 and into line with the

lower end of tube 18 so that the lowermost ball B in said latter tube will gravitate into the opening 21 as shown in Figure 7.

Various means may be employed for locking the slide against inward movement and for returning the slide so as to convey the trapped ball B from the lower end of tube 18 to the upper end of tube 21. Among these means is a mechanism which has been shown in the drawings. This mechanism includes a downwardly tapered disk 26 which is mounted to slide on but to rotate with shaft 8 and forms the lower or movable member of a centrifugal governor 27.

Normally the links 28 of the governor are substantially aligned with disk 26 in its lowermost position at which time its inclined periphery contacts with the inclined inner end 29 of slide 19. With the parts thus positioned the slide is located as in Figure 4 with stem 24 projecting outwardly from the casing. The pitch of disk 26 and of the cooperating end of slide 19 is such that slide 19 cannot be pushed inwardly by means of stem 24 as long as disk 26 is in its lower position.

When a sale is made the salesman closes the circuit to the motor 11 so that shaft 8 is then rotated and this will cause the governor to lift the disk 26 out of the path of slide 19. The customer can then press against stem 24 and push the slide back to the position shown in Figure 7 so that the lowermost ball B will drop into the opening 21. When the slide is thus pushed back the outer end of the stem 24 is brought flush with the surface of casing 5 so that it is not possible to pull the slide forwardly. However as soon as the contact breaks the circuit to the motor the shaft will stop rotating and disk 26 will descend. This downward movement of the disk will cause it to thrust against the inclined end of slide 19 and push the slide outwardly to the position shown in Figure 4 whereupon the ball which had been trapped by the slide will be conveyed to and delivered into the tube 22 and thus be dispensed to the customer. This token can be used on account of a future purchase and, if desired, the tokens or balls can be of different colors and represent different discount values.

Obviously by providing a mechanism such as herein described it is possible for the customer to receive only one discount token at a time and then only at the will of the salesman who must operate the switch in order to permit the token to be dispensed.

For the purpose of filling the container 17 an opening 30 can be provided.

What is claimed is:

1. A machine of the class described including a housing, a container in the housing having an inlet and an outlet, an outlet tube, a delivery tube for conveying tokens from the container, a slide mounted for movement between said tubes and having a token receiving opening normally registering with the delivery tube, means for thrusting the slide from normal position into position to trap a token delivered from the container, a member cooperating with the slide to shift it to normal position and lock it while in said position, a motor under the control of an operator, and centrifugally actuated means driven by the motor for shifting said member, to release the slide whereby the latter may be moved from normal position.

2. A machine of the class described including a housing, a container in the housing having an inlet and an outlet, an outlet tube, a delivery tube for conveying tokens from the container, a slide mounted for movement between said tubes and having a token receiving opening normally registering with the delivery tube, means for thrusting the slide from normal position into position to trap a token delivered from the container, means for locking the slide against movement away from normal position, and means under the control of an attendant for releasing the slide for movement out of normal position and for returning the slide to normal position, said means including a rotatable shaft within the housing, mechanism under the control of an attendant for operating the shaft, and means controlled by the rotation of the shaft for movement into and out of the path of the slide.

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