April 30, 1957 I. GOLDY 2,790,450

COIN DISPENSING APPARATUS

Filed March 23, 1954

FIG. 1

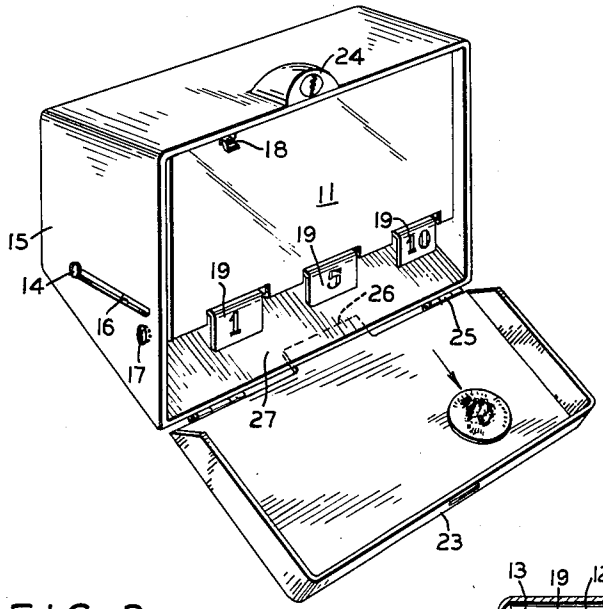


FIG. 2

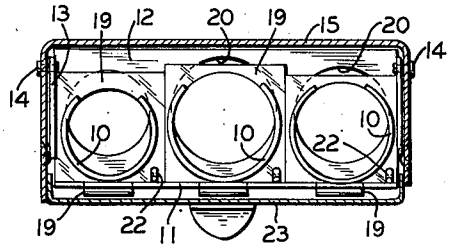


FIG. 3

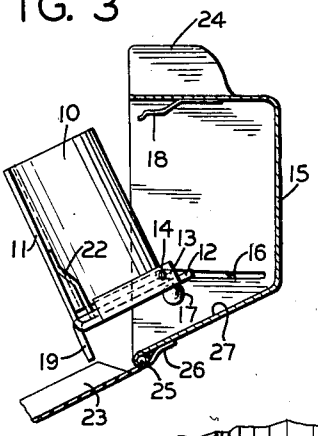


FIG. 4

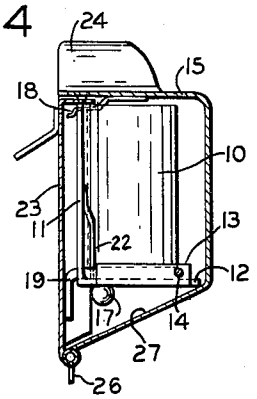
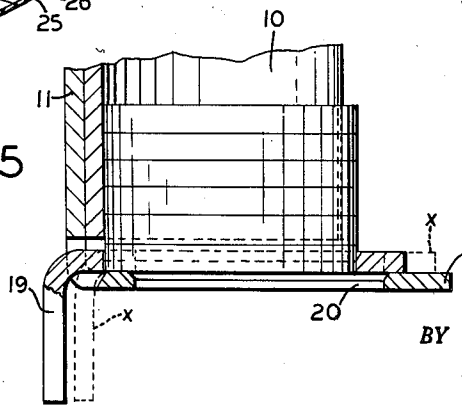


FIG. 5



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COIN DISPENSING APPARATUS

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1 Claim. (Cl. 133—6)

This invention relates to coin dispensing devices and has particular reference to a small and compact coin dispenser which dispenses coins or tokens in single units. By virtue of its design, the instant device will be found particularly useful in connection with motor vehicles where the dispenser is attached to existing structures, such as the dashboard, for dispensing coins to the operator as he passes through toll stations or requires a certain amount of change for other purposes. It should be understood however, that there are many other uses for the device described hereinafter and no limitation as to its use or manner of application is implied or expressed.

One of the objects of this invention is to provide a coin dispensing apparatus which is inexpensive to manufacture, simple in construction and durable so that the same may be maintained in working order over a long period of time.

Another object of this invention is to provide a coin dispenser which is comparatively small and compact in order that it may be mounted in an inconspicuous manner to existing structures.

A further object of this invention is the provision of a coin dispenser in which the coin storage mechanism is retractably received by a housing.

Still another object of the invention is to provide a coin dispensing apparatus which renders coins available in a dispensing tray and wherein this tray when swung against the housing encloses the dispensing and storage mechanism.

A still further and other object of the invention is the design of a coin dispenser which may be manufactured primarily from sheet metal parts so as to achieve economical production, especially when mass-produced.

One of the features of the invention includes a coin dispensing apparatus having a plurality of coin storage compartments. A dispensing lever is associated with each of the compartments in such a manner as to singly select and dispense coins. A housing is provided in which the compartments are retractably received. The housing has an open front and a bottom plate tapering towards the front to cause dispensed coins to slide forward under the influence of gravity. A cover attached to the front of the housing serves when in open position as a receiving tray for dispensed coins.

For a better understanding of the present invention together with other and further objects thereof, reference is made to the following description taken in conjunction with the accompanying drawings in which:

Figure 1 is a perspective view of an embodiment of the present invention;

Figure 2 is a plan view partly in section of the device;

Figure 3 is a side elevation partly in section showing the coin storage compartment in forward position for loading;

Figure 4 is a side elevation similar to Figure 3 showing the cover in closed position; and

Figure 5 is an enlarged sectional view showing the coin storage compartment in conjunction with the dispensing lever.

With reference to the accompanying drawings, the embodiment chosen to illustrate the present invention comprises three coin storage compartments **10**, one compartment for one-cent coins, one for five-cent coins and one for ten-cent coins as indicated in Figures 1 and 2. It should be clearly understood however, that the present invention is not limited to three compartments but may use any number desired. These storage compartments **10** are attached to a common bracket **11** by spot welding or any other convenient means. A portion **12** of bracket **11** projects at right angles to form an L each side of which has a further projection which is bent upwardly to form ears **13**. A stud **14** which is fastened to each ear **13** serves to support bracket **11** as will be described hereafter.

Storage compartments **10** together with bracket **11** are retractably received in housing **15** by virtue of the fact that studs **14** project through slots **16** in each side of the housing **15** thereby furnishing a support for bracket **11** and also permitting the bracket to be pulled forward in the manner of a drawer for loading coins into the storage compartments **10** as clearly shown by Figures 1 and 3.

With respect to the means of supporting the bracket **11**, it will be noted that the stud **14** is positioned toward the rear of ear **13** so that when the bracket is in its normal operating position as shown by Figures 1 and 4, the forward portion of the bracket is supported on an inwardly projecting indentation **17** in each side of the housing **15** adjacent the slot **16**. In order to hold bracket **11** in normal position a spring clip **18**, which is attached to the top of the housing **15**, grips a cutout portion of bracket **11**.

A dispensing lever **19** slidably placed beneath each coin storage compartment is the actuator for dispensing coins. A central aperture in lever **19** is normally positioned directly below the storage compartment **10** to receive a coin as shown by Figure 5. Section **12** of bracket **11** is provided with an aperture **20** also below each compartment **10**, but offset with respect thereto so that a coin cannot fall directly through. With further reference to Figure 5 it will be readily understood that when lever **19** is moved rearwardly into dotted position "X," the coin at the bottom of the stack will also move with the lever and become positioned directly above aperture **20** through which it will fall.

A spring **22** secured to bracket **11** as shown in Figures 3 and 4 projects into an aperture in lever **19** to return the lever to its normal position after a coin has been dispensed.

A hingedly mounted cover **23** encloses the open front of housing **15** and may be secured to the housing by locking means **24** as clearly shown in Figure 1 and Figure 4 respectively.

To operate the coin dispensing apparatus, the cover is first unlocked and swung open on its hinges **25** into a position limited by a projecting ear **26** which strikes against the underside of the housing, Figures 1 and 3. In this position the cover **23** serves as a receiving tray into which dispensed coins slide. If it is desired to obtain an one-cent coin the corresponding lever is pushed against the pressure of spring **22** and the coin will fall through its corresponding aperture **20** upon the forwardly sloping bottom **27** of the housing **15** from which, by virtue of the force of gravity, the coin slides forward into the receiving tray cover **23**. If a second coin is required, the corresponding lever is manipulated in a similar manner. After pushing a lever **19**, it must be released in order that the lever by virtue of its spring pressure returns to its normal position for receiving a new coin.

To refill the device with coins, the coin storage compartments are brought into refilling position (shown by Figure 3) by lifting the spring clip **18** and by grasping one of the levers **19**, drawing the bracket **11** forwardly, thus exposing the open top of the coin storage compartments through which they are refilled.

The present coin dispensing device is particularly suited for use in automobiles where it may be attached to the dashboard by screws or magnets or any other suitable method or sunk into an opening and placed flush with the surface of the dashboard.

Still further it will be seen that this device is constructed with a minimum number of parts, most of which are designed to be made from sheet metal in order that the instant coin dispensing apparatus may be mass-produced in an economical manner without requiring special production equipment.

While there have been described certain features and a specific embodiment of the invention, it will be obvious to those skilled in the art that various changes and modifications may be made therein without departing from the spirit and field of the invention which should be limited only by the scope of the appended claim.

What is claimed is:

A coin dispensing apparatus comprising a sheet metal bracket supporting a plurality of coin storage compartments; a lever associated with each compartment and being adapted to dispense coins in response to sliding motion applied to said levers; a sheet metal housing having an open front and being adapted to retractably

receive said compartments; the bottom side of said housing being constructed with a surface inclined toward the front thereby defining a space of substantially triangular cross section with the underside of said compartments through which coins when dispensed fall; means which include the combination of a stud supported in a slot of said housing to permit limited motion of said compartments into and out of said housing; supporting means including a stationary indentation in said housing slidably engaging said bracket to cause said compartments to assume a downwardly tilted position when said compartments are moved out of said housing for replenishing the supply of coins; a sheet metal cover plate hingedly connected to the bottom side of said housing and said cover plate being constructed to serve when in open position as a receiving tray for dispensed coins; an extension of said cover engaging the underside of said housing for maintaining said cover when in open position in an inclined position, and means to secure said cover against the housing when the cover is in its closed position thereby completely enclosing the storage compartments and levers within said housing.

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