July 12, 1949. L. A. EPPLIN 2,475,738

PILL DISPENSER

Filed Jan. 18, 1945 2 Sheets-Sheet 1

Fig. 1.

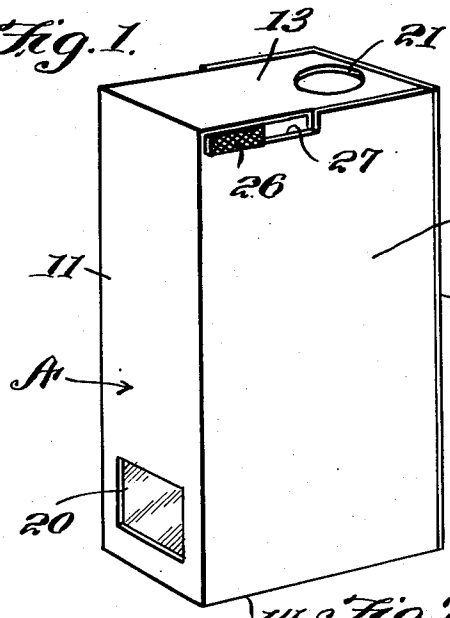


Fig. 2.

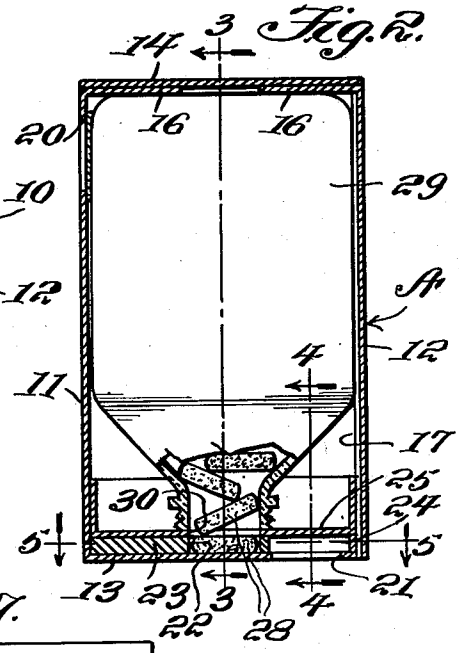
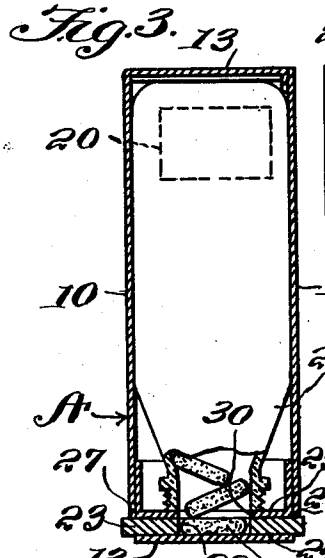


Fig. 7.

Fig. 3.



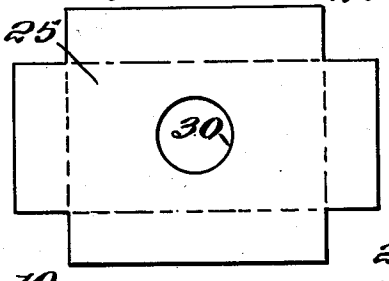
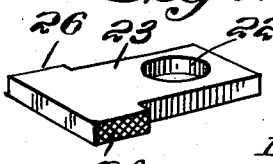


Fig. 6.



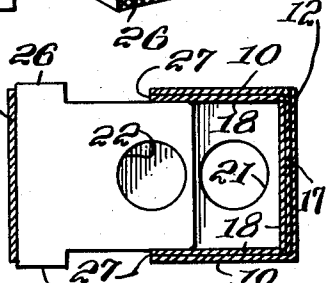


Fig. 5.

Fig. 8.

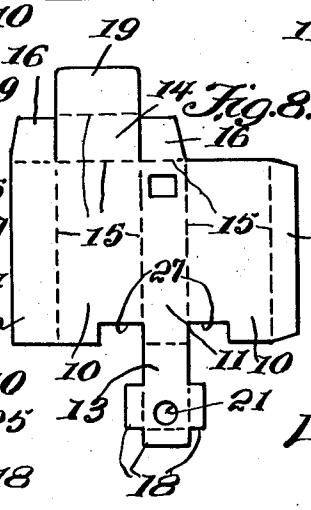
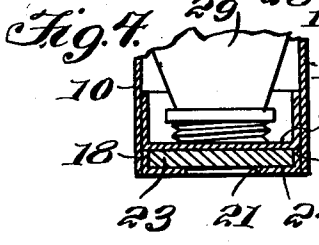


Fig. 4.



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Fig. 9.

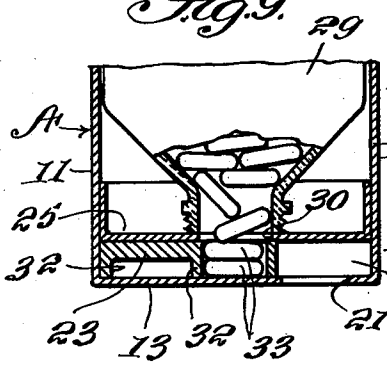


Fig. 10.

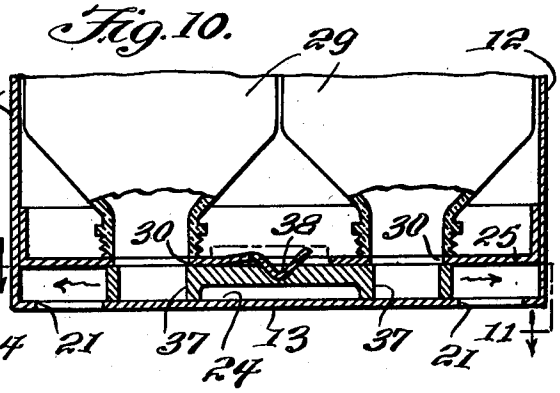


Fig. 12.

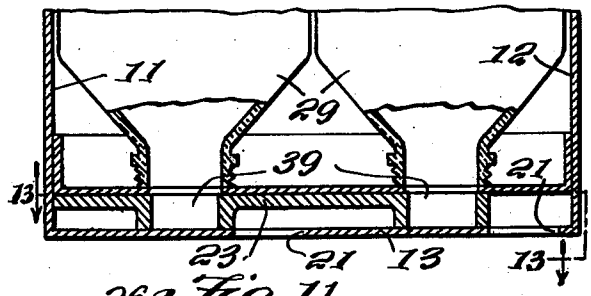


Fig. 11

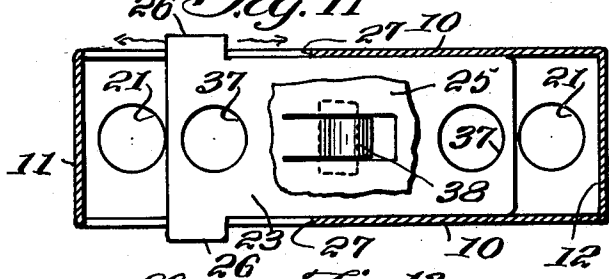
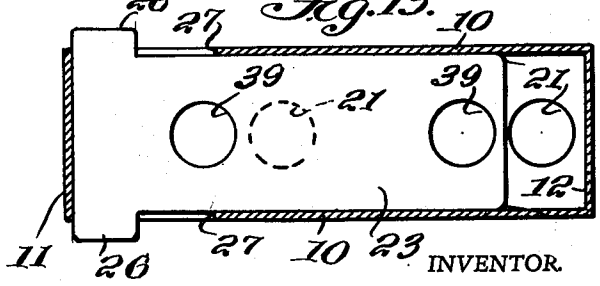


Fig. 13.



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Patented July 12, 1949 2,475,738

UNITED STATES PATENT OFFICE

2,475,738

PILL DISPENSER

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Application January 18, 1945, Serial No. 573,355

1 Claim. (Cl. 206—42)

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The invention relates to a dispenser, and more especially to a tablet dispensing device.

The primary object of the invention is the provision of a device of this character, wherein candy in tablet or pill form held within a container, can be dispensed in single order, the device being provided with an ejector slide for the single delivery of such tablets or pills in the operation of such device, which is manually controlled.

Another object of the invention is the provision of a device of this character, wherein the same affords a container for the product, which is advanced to a dispensing point by gravity on inverting the device from an upright position, the latter being its normal position.

A further object of the invention is the provision of a device of this character, wherein container for the product is of bottle form, and the latter in the original nesting thereof in the said device is devoid of a cover or stopper, thus eliminating the necessity of removing such cover or stopper when it is desired to acquire a tablet or pill, which may be singly dispensed from the said device under manual operation thereof.

A still further object of the invention is the provision of a device of this character, which is simple in construction, thoroughly reliable and efficient in the operation thereof, strong, durable, readily and easily actuated, retaining freshness to the contents, operated with ease and dispatch, 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 hereinafter more fully set forth in detail, illustrated in the accompanying drawing, which shows the preferred embodiment of the invention, and pointed out in the claim hereunto appended.

In the accompanying drawing—

Figure 1 is a perspective view of the device constructed in accordance with the invention.

Figure 2 is a fragmentary vertical longitudinal sectional view thereof.

Figure 3 is a sectional view taken on the line 3—3 of Figure 2 looking in the direction of the arrows.

Figure 4 is a sectional view taken on the line 4—4 of Figure 2 looking in the direction of the arrows.

Figure 5 is a sectional view taken on the line 5—5 of Figure 2 looking in the direction of the arrows.

Figure 6 is a perspective view of the ejector slide for the device.

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Figure 7 is a plan view of the blank forming a bottle retaining piece for the device.

Figure 8 is a plan of the blank forming the casing of the device.

Figure 9 is a section showing a modified form of ejector slide increased in thickness to accommodate two or more pills in one operation.

Figure 10 is a section showing two separate bottles and a selective ejector slide adapted to operate with each.

Figure 11 is a transverse section, and taken on the line 11—11 of figure 10 of the form shown in Figure 10.

Figure 12 is a section though modified form wherein two different pills may be dispensed at the same time, and

Figure 13 is a plan view, in section in the line 13—13 of figure 12.

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

Referring to the drawing in detail, A designates generally the device in its entirety as constructed in accordance with the invention, and hereinafter set forth in detail.

The device A comprises a body casing formed with sides 10, front 11, rear 12, top 13 and bottom 14, respectively, these being cut and bent on erase lines 15 from a blank of relatively stiff sheet material. The front 11 and two sides 10 have flaps 16 and 17, respectively, which are tucked in the erecting of the body casing, and similarly the top and bottom 13 and 14 have foldable tabs 18 and 19, for this purpose. The front 11 has therein a peep panel 20, while the top is formed with a discharge opening 21 with which cooperates the ejector cavity 22 in a manually operated ejector slide 23 fitting a way 24 between the top 13 and retaining piece 25 next thereto, and removable from the body casing, when the top 13 is untucked therefrom. This slide has laterally extending finger grips 26 which protrude through slots 27 created in the sides 10, as best seen in Figure 1 of the drawing. The cavity 22 is of a size to accommodate a single tablet or pill 28 as contained within a bottle or other like container therefor, as at 29, the latter being removably held within the body casing, as best seen in Figures 2 and 3 of the drawing.

The retaining piece 25 is provided with a center opening 30 for matching the outlet mouth of the bottle or the like 29, so that the tablets or pills can gravitate into the cavity 22 when the body casing is inverted from an upright position as shown in Figure 1 to a position as shown in Fig-

ures 2, 3 and 4 of the drawing, which is the dispensing position of the device.

The slide 23 when in the position shown in Figure 5 of the drawing shuts off dispensing of the tablets or pills from the device A, and on the registration of the holes or openings 22 and 21, the latter being the discharge part in the top of the casing, the tablets or pills can be single dispensed from the said device A, on movement of such slide 23 to those positions just referred to above. The hole or opening 21 being to one side of the vertical axis of the casing, while the hole or opening 38 is centered to such axis, as will be apparent from Figure 2 of the drawing.

In the modified form of my invention shown in Figure 9, the ejector slide 23 is appreciably increased in thickness by flanging the same as at 32 so that two pills 33 will be accommodated and ejected. In the modified form of Figure 10, two bottles or containers 28 are shown, and the plate 29 has two spacer openings 37 adapted to register with either bottle opening when moved in either direction, as shown by the arrows in Figure 10, to dispense from each bottle one at a time. A crimped member 38 is provided to hold the plate 29 or ejector in a closed position. In Figure 12 different types of pills from two containers may be dispensed at the same time by the arrangement of openings 39 as shown.

What is claimed is:

A device of the kind described, comprising a box-like body having a delivery opening in one end, a tablet and pill container removably fitted within the body and having an open mouth directed toward the delivery opening, a retainer piece removably fitted within the body next to the said mouth and having an opening registering with the latter, and a single delivery dispensing slide fitted between the end of the body having the delivery opening and the retainer piece for cooperation with the openings in said end and retainer piece for effecting single delivery of contents of the container from the body.

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