Sept. 23, 1941. A. J. PAPPERT, JR 2,256,782

LIQUID DISPENSER

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Fig. 1.

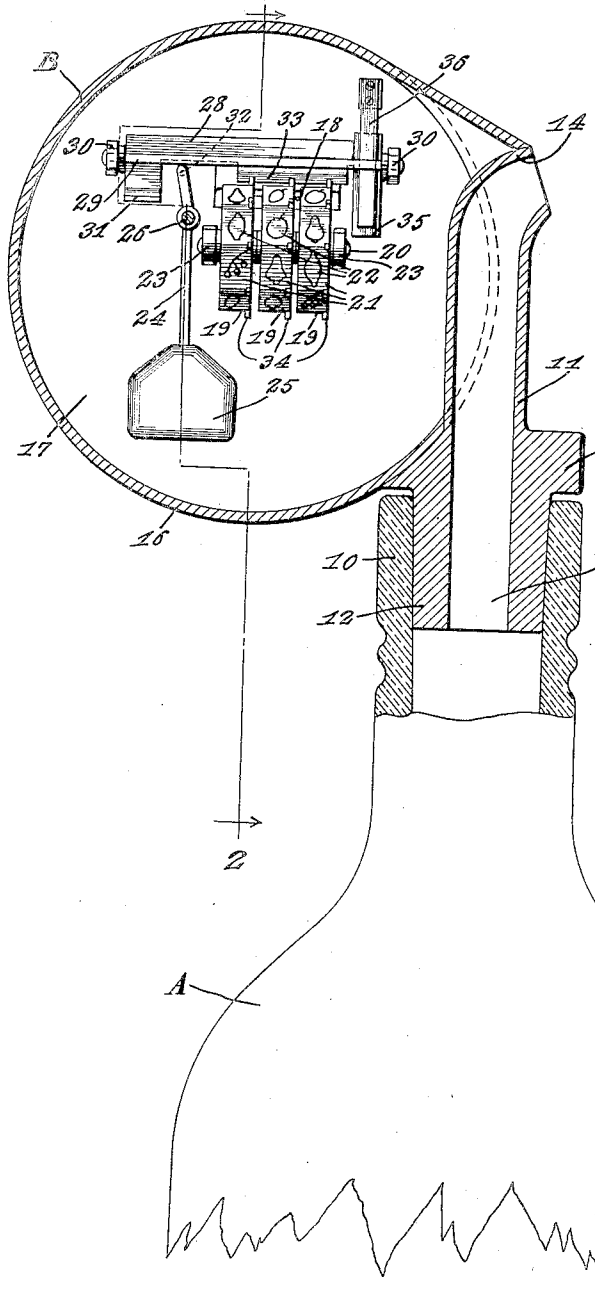
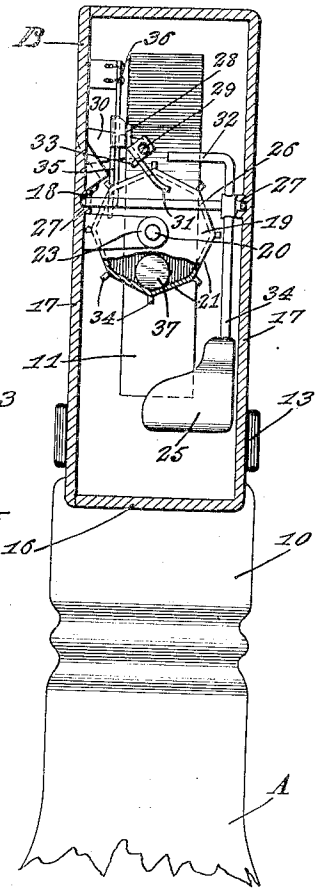


Fig. 2.



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Fig. 5.

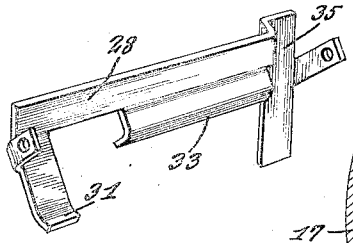


Fig. 3.

Fig. 4.

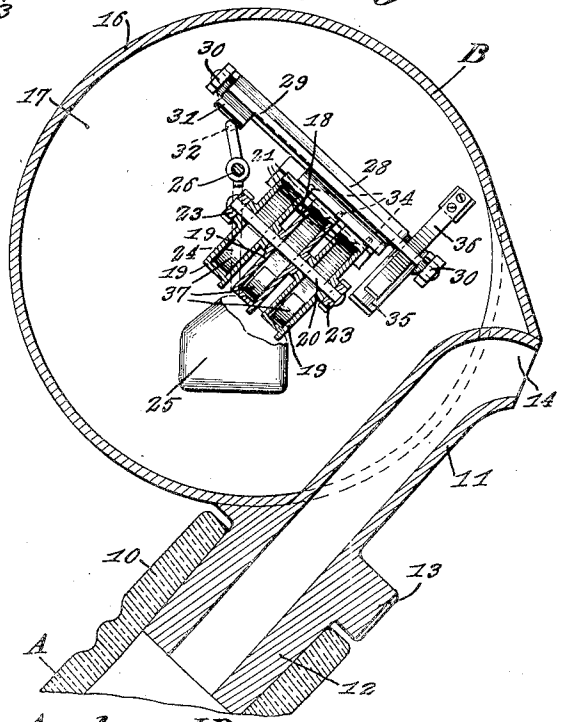
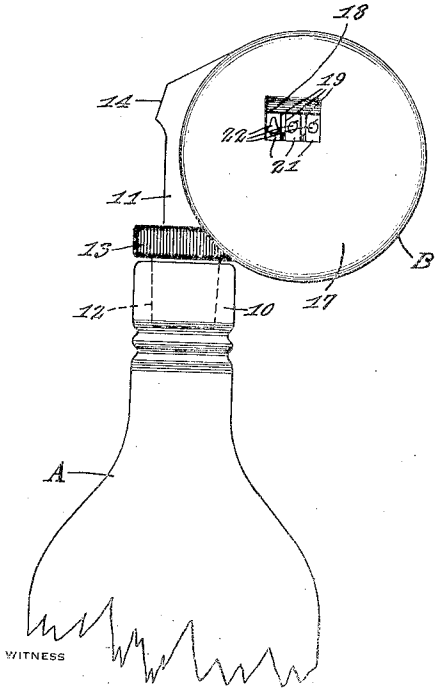


Fig. 6.



WITNESS

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UNITED STATES PATENT OFFICE

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LIQUID DISPENSER

Andrew J. Pappert, Jr., Bellevue, Pa.

Application April 29, 1940, Serial No. 332,386

2 Claims. (Cl. 273—143)

The invention relates to a liquid dispenser and more especially to a novelty gadget for use with a beverage bottle.

The primary object of the invention is the provision of a gadget of this character wherein a counting device constituting a part thereof is so arranged that when a bottle containing liquid is tilted to a pouring position and returned to an upright position the counting device will be automatically operated and thus through the use thereof its working will function as a substitute for the flipping of a coin as is conventional when two or more parties are purchasing beverage at a drinking counter, stand or the like for arriving at a win or loss for the drinks or beverage served with regard to the paying of the cost thereof. The counting device awards either a loss or win through the working thereof, namely, in this instance should the counting device register high or low awards, it having been previously determined that the high pay or the low pay, the cost of the drink attaches accordingly for the drinks of beverage served.

Another object of the invention is the provision of a gadget of this character, which lends amusement and also maintains attention to those participating in a paying contest for beverages, the gadget being novel in construction and the contents of a bottle can be readily and conveniently dispensed for the serving thereof to any number of drinkers.

A further object of the invention is the provision of a gadget of this character, which is simple in its construction, automatic in the working thereof, thoroughly reliable and efficient for the purposes intended, readily and easily fitted to a bottle, allowing easy dispensing of its contents, 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 more fully described in detail, illustrated in the accompanying drawings, which disclose the preferred embodiment of the invention and pointed out in the claims hereunto appended.

In the accompanying drawings:

Figure 1 is a fragmentary side elevation of a bottle showing the gadget constructed in accordance with the invention in vertical section.

Figure 2 is a sectional view taken on the line 2—2 of Figure 1 looking in the direction of the arrows.

Figure 3 is a vertical sectional view showing the bottle in tilting position for the dispensing of its contents.

Figure 4 is a view similar to Figure 3 showing the bottle approaching an upright position.

Figure 5 is a detailed perspective view of one of the parts of the counting device.

Figure 6 is a fragmentary side elevation of the bottle in an upright position with the gadget thereon displaying an award.

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

Referring to the drawings in detail, A indicates generally a portion of the body of a bottle and B the gadget constituting the present invention as will be hereinafter fully described.

In the mouth or open end of the neck 10 of the bottle A is adapted to be engaged the gadget B which comprises a pouring spout 11 formed with an enlarged inner end 12 for frictionally engaging in the mouth or open end in the said neck 10. This end 12 is built with a shoulder 13 for coverage of the edge of the open end or mouth while the outer end of said spout is formed with a laterally curved discharging tip 14. The content of the bottle is adapted to be dispensed through a discharge passage 15 formed within the spout 11. The body of this spout outwardly of the inner end 12 is built with a circular-shaped housing or casing 16 having opposite flat side cheeks or walls 17, one being provided with a window or sight opening 18 for the reading of a counting device hereinafter described.

The counting device involves a plurality of rotatable hollow counting wheels 19 arranged side by side and rotatably supported upon an axle or shaft 20 common thereto. The wheels at the peripheries thereof are of octagon formation presenting display areas 21 uniform with each other and impressed or otherwise marked thereon are symbols 22 indicative of a determined count or award, either in combination with selected grooves or individually. The axle or shaft 20 is supported in bearings 23 in a manner to present the areas 21 in a horizontal disposition to each other throughout the plurality of wheels 19 visible through the window or sight opening 18 for the reading of the symbols 22 therethrough. To one side of the plurality of wheels 19 and movable at an axis at right angles to the axis of rotation of the said wheels is a weighted gravity controlled arm or pendulum 24, the weight 25 at the lowermost portion thereof being hypaxial and the axle or pintle 26 for this arm 24 being journaled in suitable bearings 27 formed on the inner faces of the cheeks or walls 17 of the housing 16.

To one side of the plurality of wheels 19 and above the same is located a rocking actuator blade 28, being swingable upon a shaft 29 fitting bearings 30 stationarily built within the housing 16. This blade 28 to one side of the pintle 26 is formed with a projecting trip extension or cam wing 31 engageable by an elbow 32 formed with the said arm 25 while at the other side of the pintle 26 is a striker trigger 33 which is adapted to engage with abutments 34 extending radially from the respective wheels 19 on swinging movement of the blade so as to impart rotation to the said wheels. The blade 28 is formed with a contact 35 for a leaf spring 36 suitably fixed within the housing or casing 16. This spring 36 places the blade 28 under tension when the striker extension 31 is released from the elbow 32 resulting in the effecting of an impact of the striking trigger 33 upon the abutments 34 thus rotary driving the wheels 19 and when momentum thereof ceases the same at the areas 21 through the medium of the symbols 22 display a determined count or an award visible through the window or sight opening 18.

Within each of the wheels 19 is a spherical gravity weight 37 which functions when the wheel becomes passive to register the area 21 with the window or sight opening 18 so that the symbol 22 appearing on this area is visible and readable through the latter.

The purpose of the changing of the symbols 22 through rotation of the wheels 19 is to set up an award identified by the said symbols which are indicative of a particular count.

When the bottle is in an upright position and is tilted manually for the discharge of the contents of the required quantity through the spout 11 satisfactory to a drinker, the weighted arm 24, which normally is in a vertical position when the bottle is upright, swings to the position as shown in Figure 4 of the drawings. This movement of the arm 24 brings the elbow 32 against the extension 31, rocking the blade 28 against the resistance of the spring 36 so that the trigger 33 will become set under tension so that when the said bottle has been returned from tilting position to the normal upright position the said trigger 33 will actuate the wheels 19 imparting rotary motion thereto to make visible an award as indicated by the symbols 22 when these wheels 19 become passive. In this way several or more persons participating in the drinking of beverage from the bottle A can arrive at an award through the counting device as to who will pay the cost of the dispensed beverage in that the counting device displays a winner or winners and a loser through the medium of the symbols 22 displayed through the window or sight opening 18 on each tilting and dispensing activity of the bottle in the handling thereof for beverage drinking.

It must be borne in mind that when the bottle is in an upright position the weighted arm 24 is vertical and inactive on the counting device and when the bottle is tilted for the pouring of its contents, this arm 24 becomes active for setting the counting device into operation. The counting device makes visible awards under the operation thereof as hereinbefore set forth. This dispenses with the habit of two or more persons participating in the drinking of beverages to flip a coin for determining who shall meet the expense of the beverage.

What is claimed is:

1. A chance device, comprising a casing, a rotatable shaft carried by the casing, a series of wheels carried by the shaft, symbols on the periphery of the wheels, abutments carried by the wheels, a spring tension actuator blade mounted in the casing and adapted to strike the abutments and rotate the wheels, and a pendulm for moving the spring tension actuator blade against the tension of the spring and releasing the same, whereby the rocking of the casing causes a rotation of the wheels.

2. A chance device, comprising a casing, a rotatable shaft carried by the casing, a series of wheels carried by the shaft and having symbols on their outer periphery, abutments carried by the outer periphery of the wheels, a spring tension actuator blade pivotally mounted in the casing and engaging the abutments on the wheels, and a pendulum adapted to engage the spring tension actuator blade for rocking the same against the tension of the spring and releasing it to allow the same to strike the abutments carried by the wheels and rotate the same.

ANDREW J. PAPPERT, JR.