Aug. 22, 1961 A. GIULIANO 2,996,833

AMUSEMENT DEVICE

Filed Dec. 2, 1959

Fig 1

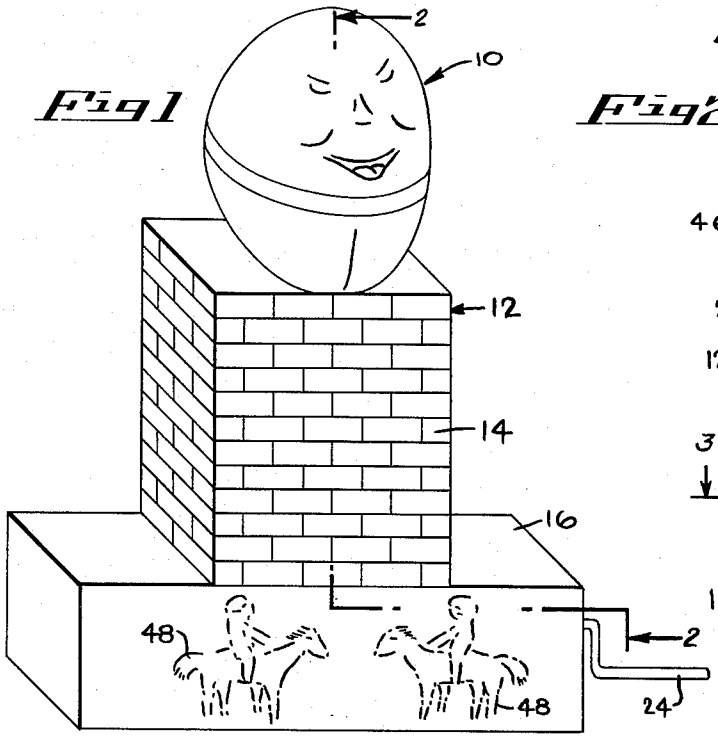
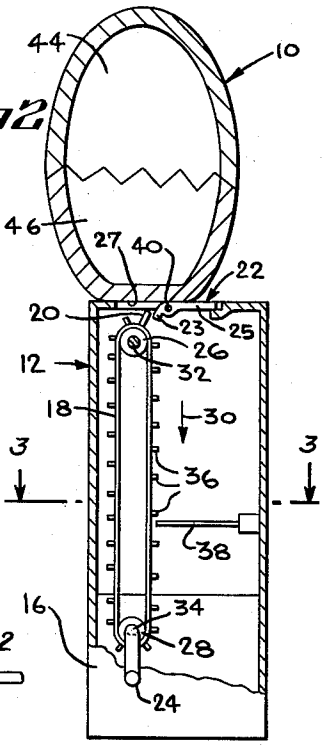


Fig 2



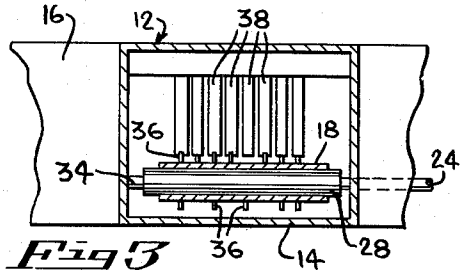


Fig 3

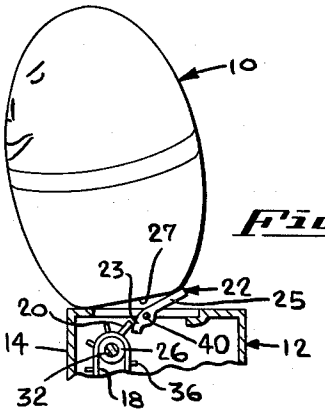


Fig 4

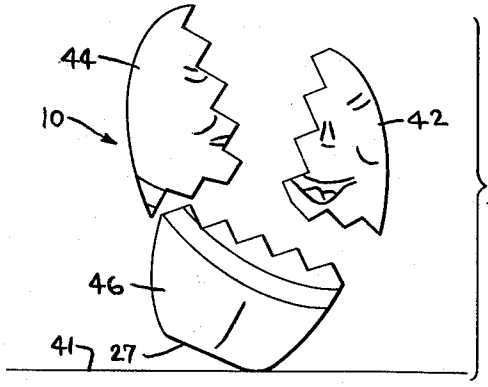


Fig 5

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2,996,833

AMUSEMENT DEVICE

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2 Claims. (Cl. 46—22)

The invention relates to amusement devices, and relates more particularly to musical amusement devices.

It is among the principal objects of the invention to provide an amusement device which includes a support on which there is placed a knock-down figure in assembled state that may be displaced off the support by an actuator, to crash to the ground. I prefer to use as the figure a knock-down egg, of the type known as "Humpty Dumpty," though the invention is not limited thereto.

It is another object of the invention to provide with the actuator of my amusement device means to produce a sound sequence, such as a tune, so that the actuator will displace the figure off the support at a certain point in the sequence.

With the above and other objects of the invention in view, the invention consists in the novel construction, arrangement and combination of various devices, elements and parts, as set forth in the claims hereof, one embodiment of the same being illustrated in the accompanying drawings and described in the specification.

The foregoing and other objects of the invention will be best understood from the following description of an exemplification thereof, reference being had to the accompanying drawings, wherein:

FIG. 1 is a perspective view of a preferred embodiment of the invention, shown in an assembled position wherein the figure rests on the support;

FIG. 2 is a vertical sectional view taken on the line 2—2 of FIG. 1;

FIG. 3 is a horizontal sectional view taken on the line 3—3 of FIG. 2;

FIG. 4 is a fragmentary sectional view, similar to FIG. 2, but showing the figure ready to be tossed off the support; and

FIG. 5 is an extended view of the figure in a knocked-down state.

In carrying the invention into effect in the single embodiment which has been selected for illustration in the accompanying drawings and for description in this specification, and referring now particularly to FIG. 1, a knock-down figure, such as a "Humpty Dumpty" egg **10** is displayed on a support **12** such as a wall **14** that has a base **16**. The figure need not be a "Humpty Dumpty" egg but may instead be any suitable knock-down toy that may easily be put together again.

Referring to FIG. 2, the embodiment of my invention shows, within the support **12**, an actuating means such as an endless movable belt **18** on which there is supported an enlarged finger **20** that is capable to engage momentarily a tiltable two-armed lever **22**, and a hand crank **24** that may be driven by a child to move the belt. The actuating means need not be a hand operated belt, but may instead be a suitable power-driven mechanism.

The belt **18** is suspended over a pair of pulleys **26** and **28**, traveling in the direction as shown by an arrow **30**, when the hand crank **24** is rotated. The pulleys **26** and **28** are supported on shafts **32** and **34**, which in turn are supported by the support **12**. The hand crank **24** is also axially supported by the support **12**.

The belt **18** includes on its outside surface a series of fingers **36**. The fingers **36** engage a series of tuned tongues **38** which are mounted on the internal surface of the support **12** to produce a sequence of signals or sounds, for example the nursery tune "Humpty Dumpty sat on a wall . . . ." The belt **18**, the series of fingers

36 and the tuned tongues **38** together form means operable to produce the sequence of signals or sounds.

The enlarged finger **20** which is located on the surface of the belt **18** during each complete cycle of the belt **18** once makes contact with one arm **23** of the lever **22** which is adjacent the belt **18**. The lever **22** pivots about a point **40**, and has its other arm **25** disposed adjacent the position of the "Humpty Dumpty" egg **10**. The arm **25** normally is flush (FIG. 2) with the top wall of the support **12** on which the egg **10** rests. When the finger **20** actuates the arm **23** of the lever **22** (FIG. 4), the arm **25** of the tilting lever **40** will engage the egg **10** and will thereby initiate the displacement of the egg **10** off the support **12**, so that the egg **10** will then crash to the ground **41** and will break apart into a number of pieces **42**, **44** and **46** as shown in FIG. 5.

The egg **10** may have a flat bottom surface **27** for easy resting on the top wall of the support **12**.

When the egg **10** falls to the ground it is knocked apart, but may thereafter easily be assembled and be placed again onto the support **12**, to play the game over.

In addition, in order to enhance the value of the amusement device, the egg may receive on its interior a pair of dice. When the egg falls and breaks apart, the dice will fall out and each will expose a number. The sum of these numbers can be used in playing any social game.

The operation of the invention is as follows: The "Humpty Dumpty" egg **10** is made up of a predetermined number of pieces **42**, **44** and **46**, that a child may very easily put together to make one unit. This egg **10** is then placed with its bottom surface **27** on the support **12** as shown in FIG. 1. The child will then turn the hand crank **24**; by the cranking there will be moved the belt **18** in the direction shown by the arrow **30**, and the fingers **36** will produce with the tongues **38** a sequence of sounds, for instance the well-known "Humpty Dumpty" nursery tune. At a predetermined point of the tune, which may be at the point at which "Humpty Dumpty has a great fall," the over-size finger **20** trips the lever **22** which in turn pushes the egg **10**, which is operative upon a slight predetermined displacement, to tumble off the support **12**. On the base **16** of the support **12**, which houses the crank **22**, there may be painted or molded figures of the king's horses and of the king's men **48**.

It may be noted that while in the nursery rhyme all the king's horses and all the king's men couldn't put "Humpty Dumpty" together again, the child can put the three broken pieces **42**, **44** and **46** of the egg **10** easily back together again, and place it sitting on the "wall" (the support **12**) to play the game again.

I wish it to be understood that I do not desire to be limited to the exact details of construction shown and described, for obvious modifications will occur to a person skilled in the art.

Having thus described the invention, what I claim as new and desire to be secured by Letters Patent is as follows:

1. In an amusement device, the combination of a support disposed above the ground, a knock-down figure normally positioned in assembled state on said support, a two-armed lever tiltable on said support, one arm of said lever supporting a portion of said figure from below and normally being weighted down by the weight of said portion, a second arm of said lever projecting at an angle to said one arm, actuating means connected to said support and including an endless movable member having a finger, said second arm protruding into the path of said finger, said finger being operable when the endless movable member is moved to engage said second arm thereby to tilt said one arm raising it against the weight of said figure for displacing said figure off said support so that the figure will crash to the ground to be knocked

apart, and means actuatable for operating said actuating means.

2. In an amusement device, the combination of a support having a surface disposed above the ground, a knock-down figure normally positioned in assembled state on said surface, a two-armed lever tiltably connected to said support and having one arm normally flush with said surface and retained in that position by the weight of at least a portion of said figure and by its own weight and having a second arm at an angle to said surface, actuating means connected to said support and including an endless movable member having a finger, said second arm protruding into the path of said finger, said finger being operable when the endless movable member is moved to engage said second arm thereby to tilt said one arm raising it against the weight of said figure for displacing said figure off said surface so that the figure will crash to the ground to be knocked apart, and means actuatable for operating said actuating means.

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