Feb. 14, 1928. 1,659,423

V. BITETTO

ROTARY TOY DEVICE

Filed April 21, 1927

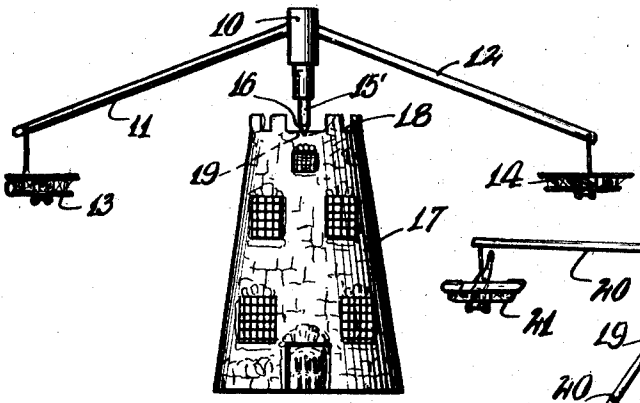


FIG. 1.

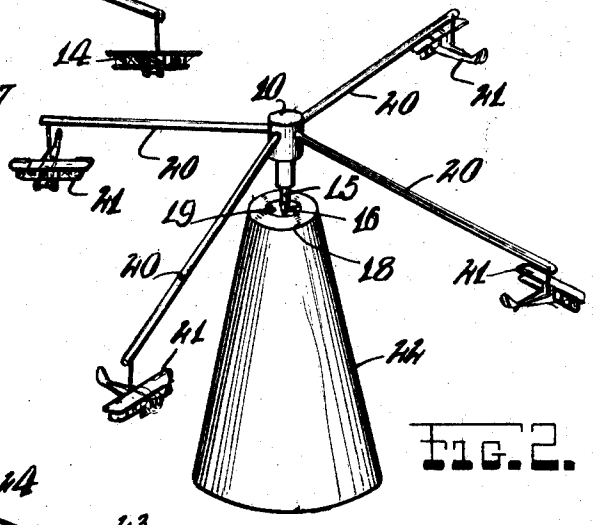


FIG. 2.

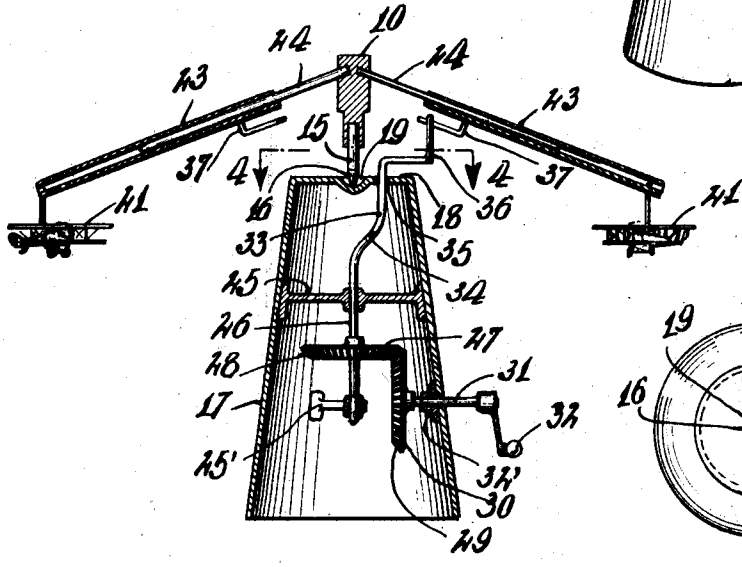


FIG. 3.

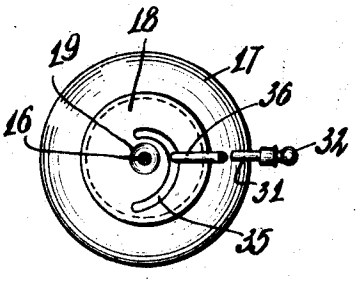


FIG. 4.

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Patented Feb. 14, 1928. 1,659,423

UNITED STATES PATENT OFFICE.

VINCENT BITETTO, OF OZONE PARK, NEW YORK, ASSIGNOR OF ONE-HALF TO ETHEL KURZWEIL.

ROTARY TOY DEVICE.

Application filed April 21, 1927. Serial No. 185,410.

This invention relates to a new and amusing device in the nature of a rotary toy, particularly adapted to amuse children.

The object of the invention is to provide a rotary toy of novel construction and arrangement of parts, hereinafter more fully described, claimed and illustrated in the accompanying drawing.

Fig. 1 is a front elevational view of my improved rotary toy.

Fig. 2 is a perspective view illustrating a modification of my improved rotary toy.

Fig. 3 is a central sectional view illustrating a further development of my improved rotary toy.

Fig. 4 is a transverse sectional view taken on the line 4—4 of Fig. 3.

As here embodied my improved rotary toy comprises a spinner member 10, of cylindrical construction. A pair of arms 11 and 12, preferably of heavy metal, are attached to the spinner member 10, and are extended therefrom, in opposite directions, horizontally, preferably inclined somewhat downwardly. The toy aeroplanes 13 and 14, are suspended, from the free, or extended extremities of the arms 10 and 11, respectively. The pointer 15, is adapted to engage in an axial aperture formed in the lower portion of the spinner member 10, so as to be readily and easily removed therefrom. The pointer 15, is provided with a tapered pointed extremity 16.

The base member 17, is constructed, so as to represent a castle, and is provided with an upper top surface 18, having a central depressed portion 19. The above described construction is such as will permit the toy aeroplanes to be rotated or spun by the hand of a child, so as to amuse the child.

In Fig. 2 of the accompanying drawing, I have shown a plurality of arms 20, extended from the spinner member 10, positioned, or extended therefrom, so as to maintain the equilibrium of the toy aeroplanes 21, which are extended from the free extremities of the arms 20. I have also provided a base member 22, of frustum conical shaped construction.

In Figs. 3 and 4 of the accompanying drawing, I have provided arms 23, of tubular construction, adapted to frictionally engage the rods 24, attached to and extended from the spinner member 10, similar to the above mentioned arms 11, 12, and 20. The latter described construction is such as will permit the toy aeroplanes 21, to be extended, as may be desired. The base member 17, is of hollow construction, and is provided with brackets 25 and 25′, positioned inside the base member 17, and adapted to rotatively support the vertical rod 26. The bevel gear 27, or disc, is secured to the rod 26, and is provided with teeth 28, adapted to mesh with the teeth 29 of a similar bevel gear 30, secured to the rod 31. The rod 31 is rotatively mounted in a bracket 32′ attached inside the base member 17. The rod 31 is extended outside the base member 17, and has attached at its extended extremity a crank 32. The engaging rod 33, is hinged, as at 34, by a pin, or the like, to the upper extremity of the rod 26. The engaging rod 33, is extended through a helically elongated aperture 35, formed in the above mentioned top, or upper portion 18, of the base member 17. The engaging rod 33, is provided with an upper offset portion 36, adapted to engage the finger members 37, attached to the arms 23, when the arms 23, are positioned in a closed or non-extended position, as clearly shown in Fig. 3 of the accompanying drawing.

The above described construction is such as will permit the toy aeroplanes 21, to be rotated, when the crank 32 is rotated or turned by a child. It should be understood that the toy aeroplanes will be given an initial momentum or start.

Having thus described my invention, what I claim as new and desire to protect by Letters Patent of the United States is as follows:

1. A rotary toy of the class described comprising a hollow base member, a substantially horizontal upper wall on said base member having a depression at the center thereof, and an arcuate slot therein, a spinner member comprising radially extending arms mounted on said base member and engaged in the depression of said top wall, a shaft disposed centrally of and journaled in said base member, a gear on said shaft, a crank member journaled in the side of said base member, a gear on said crank meshed with said first mentioned gear for rotating said shaft, an extension pivotally mounted on said shaft and disposed through said

arcuate slot, and fingers on said arms adapted to be engaged by said extension for rotating said spinner.

2. A rotary toy of the class described comprising a base member, a substantially horizontal top wall on said base member having a central depression and an arcuate slot therein, the ends of said slot being unequally distant from the center of said top wall, a shaft journaled in said base member adapted to be rotated and comprising an off-set upper portion, an extension pivotally attached to said off-set upper portion and disposed at its upper end through said slot adapted to be guided thereby, a spinner member mounted on said top wall comprising a pointed extremity engaged in said depression, and arms comprising fingers on said spinner member adapted to be engaged by the extension of said shaft when the latter is at one end portion of said arcuate slot and to be free from said extension when the latter is at the other extremity of said slot for permitting continued rotation of said spinner.

3. A rotary toy of the class described comprising a base member having a depression in the top thereof, the top of said base member being provided with an arcuate slot having one extremity spaced at a greater distance from said depression than the other, a rotary member comprising fingers and a pointed projection engaged in said depression, and mechanism for rotating said rotary member comprising a rotatively and pivotally mounted extension disposed through said slot and guided thereby adapted to engage said finger when at one extremity of said slot and to be free from said fingers when at the other extremity thereof.

In testimony whereof I have affixed my signature.

VINCENT BITETTO.