Oct. 14, 1952 H. SINGER 2,613,931

TOY CAROUSEL

Filed July 6, 1948 2 SHEETS—SHEET 1

FIG 1

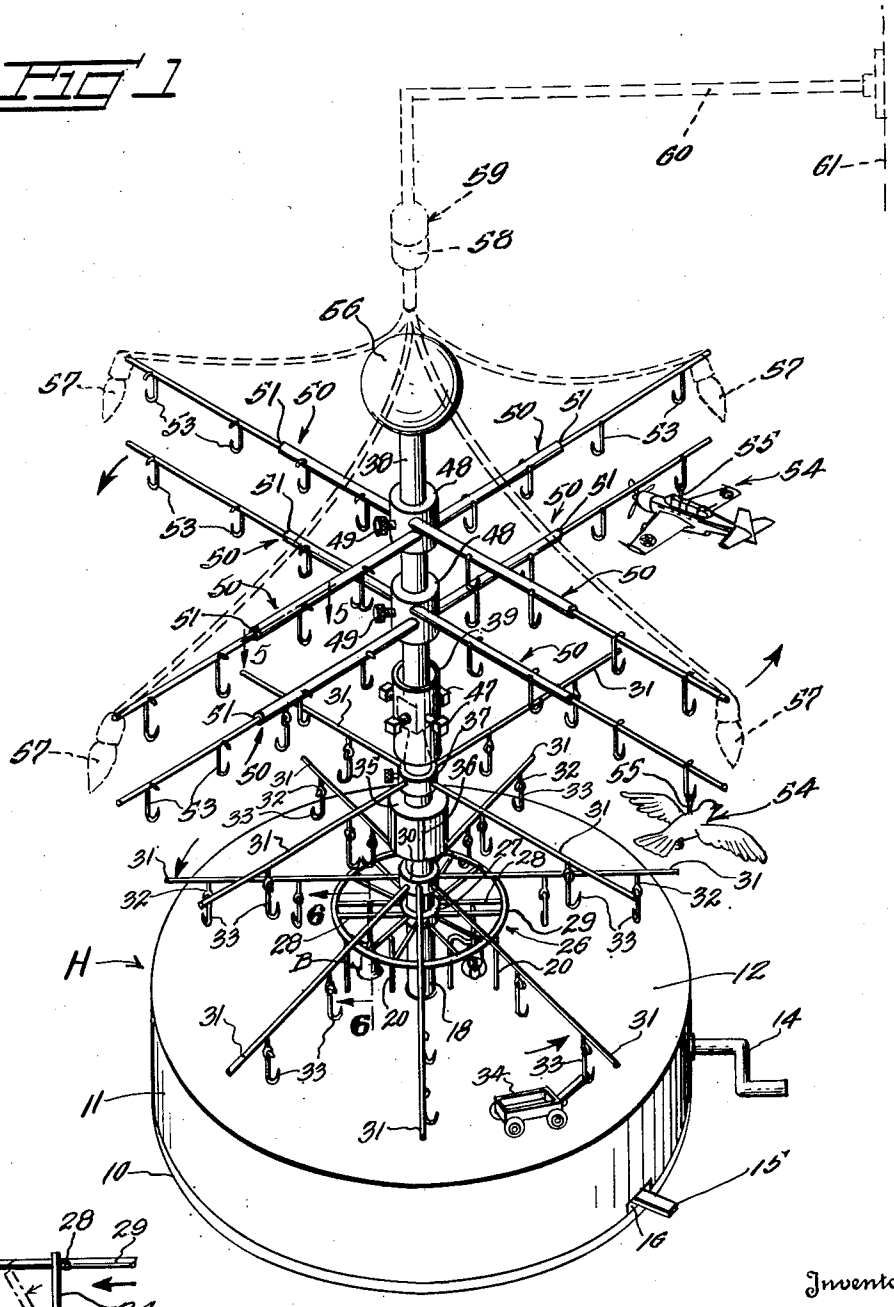
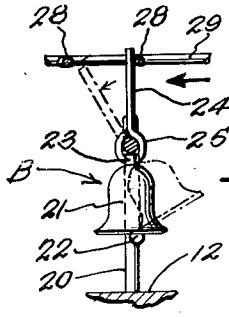


FIG 6



Inventor

Henry Singer

By Wilfred L. Lawson

Attorney

Oct. 14, 1952 H. SINGER 2,613,931

TOY CAROUSEL

Filed July 6, 1948 2 SHEETS—SHEET 2

FIG 2

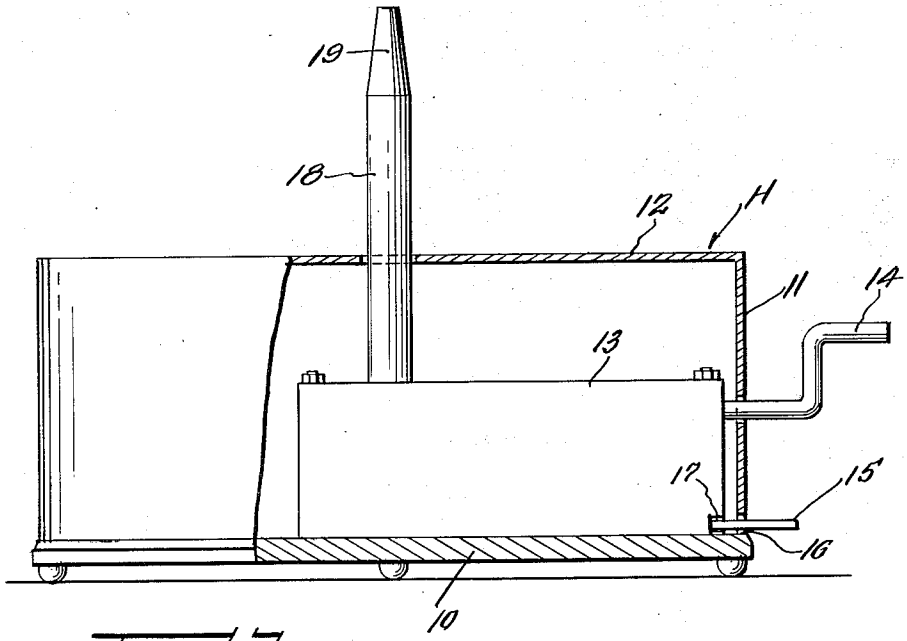


FIG 3

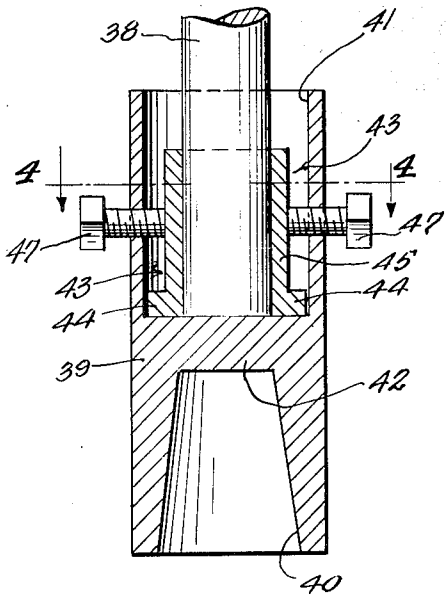


FIG 4

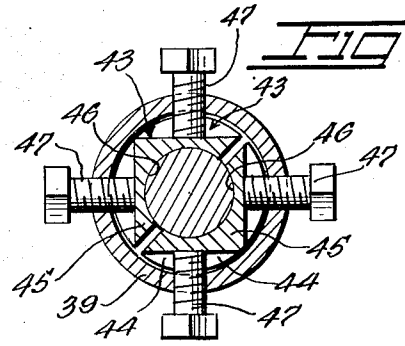
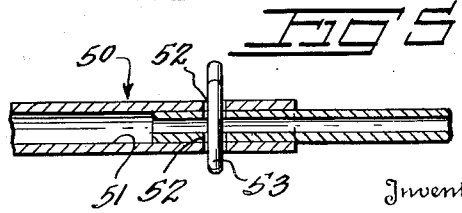


FIG 5



Inventor

Henry Singer

By Wilfred L. Lawson

Attorney

Patented Oct. 14, 1952 2,613,931

UNITED STATES PATENT OFFICE

2,613,931

TOY CARROUSEL

Henry Singer, Honolulu, Territory of Hawaii, assignor of one-half to Oi Gin Pung, Honolulu, Territory of Hawaii

Application July 6, 1948, Serial No. 37,131

1 Claim. (Cl. 272—31)

1

The invention relates to toy carousels and more particularly to that kind of carousels which is driven by an encased motor mounted in a housing forming the base of the carousel and having a flat top.

The primary object of the invention is to provide a carousel of the character indicated above comprising a vertical main mast driven by said motor and equipped with horizontal arms adapted to pull or support toys or other articles for the purpose of amusing children or for display in store windows and similar places.

Another object of the invention is to provide a carousel of the character indicated above, on the main mast of which horizontal projections are arranged adapted to engage and actuate bells supported pivotally above the housing.

A further object of the invention is to provide a carousel of the character indicated above, on the main mast of which comic pictures, picture postal cards or the like can be removably and exchangeably attached.

A still further object of the invention is to provide a carousel of the character indicated above, on the main mast of which an extension mast is removably attached, on which a plurality of radially extending telescopic arms are removably mounted and are adapted to support toys or the like.

Other objects of the invention may appear in the following specification describing the invention with reference to the accompanying drawing, illustrating a preferred embodiment of the invention. It is however, to be understood that the invention is not to be limited or restricted to the exact construction and combination of parts described in the specification and shown in the drawing, but that such changes and modifications can be made, which fall within the scope of the claim appended hereto.

In the several figures of the drawing similar parts are indicated by similar reference characters and

Figure 1 is a view in perspective of a carousel in accordance with the present invention.

Figure 2 is a side view in elevation of the bottom portion of the carousel in accordance with the invention, a portion of the bottom casing being broken away.

Figure 3 is a sectional view taken on a diametrical vertical plane of a socket member, securing an extension mast to the main mast of the carousel in accordance with the present invention.

Figure 4 is a sectional view taken on line 4—4 in Figure 3.

Figure 5 is a sectional view taken on line 5—5 in Figure 1, and

Figure 6 is a sectional view taken on line 6—6 in Figure 1.

2

The toy carousel embodied herein comprises a housing H forming the base of the carousel. The housing H has a bottom 10, a circumferential side wall 11 and a flat top 12. Inside of the housing H a casing 13 is securely mounted, enclosing a conventional spring motor (not shown) or the like. A crank 14 or the like extends through the side wall 11 and into the casing 13 to wind the motor and a brake lever 15 extends through a slot 16 in the side wall 11 and a slot 17 in the wall of the casing 13 and is adapted to stop, start and regulate the action of said motor in a conventional well known manner. A substantially cylindrical main mast 18 is rotatably mounted in the casing 13 and extends upwardly in substantially vertical position through the top 12 of the base housing H. The main mast is rotated about its vertical axis by the motor in a well known manner. The upper end portion 19 of the main mast tapers upwardly.

On the top 12 of the housing H a pair of substantially M-shaped supports 20 are mounted so that they extend substantially vertical in upward direction, and that the vertical elements of the supports are arranged on a diameter of the housing top 12. The two supports are located on opposite sides and at equal distances from the main mast.

On each support 20 a small bell B is pendulously mounted. Each bell B comprises a body 21, in which a clapper 22 is swingingly hung. From the top of the bell body 21 an eye 23 extends upwardly, and the lower end portion of a stem 24 is formed into a larger eye 25 and extends through the eye 24, which is clamped securely around it. The support 20 is threaded through the eye 25 before the support is soldered or otherwise secured to the housing top 12. A wheel 26 comprises a hub 27 surrounding and secured to the main shaft 18, and a plurality of spokes 28 extending between and secured to the hub 27 and the rim 29 of the wheel 26. The wheel is arranged on the main mast 18 at such a height that the spokes 28 engage the stems 24 of the bells B and cause the bells to ring or to tinkle when the mast 17, 18 is rotated about its axis.

Above the wheel 26 another hub 30 is mounted on the main mast and is secured thereto in any suitable conventional manner. A plurality of arms 31 are secured to the hub 30 and extend radially therefrom, and in each arm 31 a plurality of downwardly extending screw eyes 32 are threadedly secured. A hook 33 is pendulously supported by each screw eye 32. To each hook 33 a toy in the shape of a vehicle 34 or the like is attached so that it runs on the top 12 of the base housing H, when the main mast 18 is set into rotary motion.

A tubular member 35 is mounted on the main mast 18 above the hub 30 and is divided into a

plurality of sections by axially extending and radially projecting retainer ribs **36**, adapted to engage and store picture postal cards (not shown) or the like inserted between adjacent ribs **36**.

Above the tubular member **35** another hub **37** is mounted and adjustably secured on the main mast **18**, and a plurality of arms **31** provided with screw eyes **32** and hooks **33** as described above are secured to and extend radially from the hub **37**, which is preferably positioned just below the tapering upper end mast portion **19**.

In order to mount an extension mast **19** onto the main mast **18** a substantially cylindrical socket member **39** is provided having in its lower end portion a central upwardly tapering socket **40** adapted to receive the tapering upper main mast portion **19** and to engage the same securely. The upper end portion of the socket member **39** is provided with a central bore **41** extending part way into said member, so that the bore **41** is divided from the tapering socket **40** by a cross wall **42**. In the bore **41**, two cooperating clamping members **43** are located and each member **43** comprises a semi-circular base portion **44** from which a body **45** extends upwardly having a right angled isosceles triangular cross section. The radius of each base portion **44** is smaller than the radius of the bore **41** and an arcuate groove **46** is arranged in the longest side of each clamping member **43** along the center line thereof. The radius of each groove **46** is equal to the radius of the extension mast **38**, but the center of the arc formed by each groove is located slightly outside of the hypotenuse of the triangle formed by the cross section of each body **45**. The two clamping members **43** are inserted into the bore **41** base portions first and so that the grooves **46** face each other. Four screws **47** extend through the wall of the bore **41** and are arranged at right angles to each other so that each engages one side of the bodies **45** of the clamping members **43**. The extension mast **38** is arranged in the grooves **46** and the screws **47** are tightened, whereby the clamping members are forced against the extension mast holding the same securely in place.

A plurality of sleevelike members **48** surround the extension mast and are secured thereto at adjustable distances from each other by screws **49**. From each sleeve-like member **48** a plurality of arms **50** extend in substantially radial direction thereto. Preferably each arm **50** is constructed telescopically as indicated at **51** and in each telescopic part of each arm, diametrically extending holes **52** are provided. Substantially C-shaped hooks **53** are pendulously inserted in the holes **52** and the telescopic parts of each arm **50** are secured in adjusted position by arranging the parts so that two of the holes **52** are positioned substantially coaxial with each other, and by inserting a hook **53** through said coaxially arranged holes. On each hook **53** a toy **54** such as a miniature aeroplane, a flying bird, or any other object may be secured loosely, for instance, by means of a rubber band, **55**, removably secured to said toy and supported by the hook.

An end piece **56** is secured on the top end portion of the extension mast **38** and may have any preferred suitable shape as, for instance, the shape of a ball or a globe.

The above described toy carousel can be used to amuse children by setting the mast **18** into rotary motion, whereby the toys **34** resting on the top **12** of the base housing H are pulled in circles over said top and the pendulously supported toys **54** are swung in circles about the mast axis. It is to be noted that toys **54** can be secured also on the hooks **33** on the arms **31** of the main mast **18**. The carousel can also be used for advertising purposes in show windows and on store counters or the like and can be made more attractive by illuminating it by a plurality of electric lights **57** electrically connected with the lower or rotating portion **58** of a conventional slide-contact **59**, the upper or relatively stationary part of which is secured to a bracket **60** or the like mounted on a building wall **61** or the like, and is electrically connected with a source of power (not shown). The electric illuminating means do not form any part of the present invention and are therefore neither shown nor described in detail. The electric lights **57** are secured in any conventional manner to the arms **50**.

The extension mast **18** and all parts mounted thereon can be removed from the socket member **39** by loosening the screws **47** without disturbing the lower part of the carousel and, if desired, a Christmas tree (not shown) or the like can be inserted in the socket member **39**.

I claim:

In a toy of the class described, a base having the form of a hollow cylindrical housing, a mast rising axially of and from within said housing, a spoked wheel carried by said mast above said housing, angled standards rising from the top of said housing beneath said wheel, bells pivotally supported on said standards, and extensions from said bells disposed in the path of movement of the spokes of said wheel for actuation thereby to impart swinging motion to the bells.

HENRY SINGER.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
369,623	Totten et al.	Sept. 6, 1887
750,803	Burnside	Feb. 2, 1904
858,159	Deis	June 25, 1907
1,360,856	Zander	Nov. 30, 1920
1,435,856	Kelly	Nov. 14, 1922
1,811,543	Gavlak	June 23, 1931
2,532,571	Reeves	Mar. 5, 1946

FOREIGN PATENTS

Number	Country	Date
37,585	Austria	Feb. 1, 1909