

E. H. TUNLEY.
TOY.

APPLICATION FILED APR. 2, 1921. RENEWED JULY 11, 1922.

1,438,796.

Patented Dec. 12, 1922.

2 SHEETS—SHEET 1.

Fig. 1.

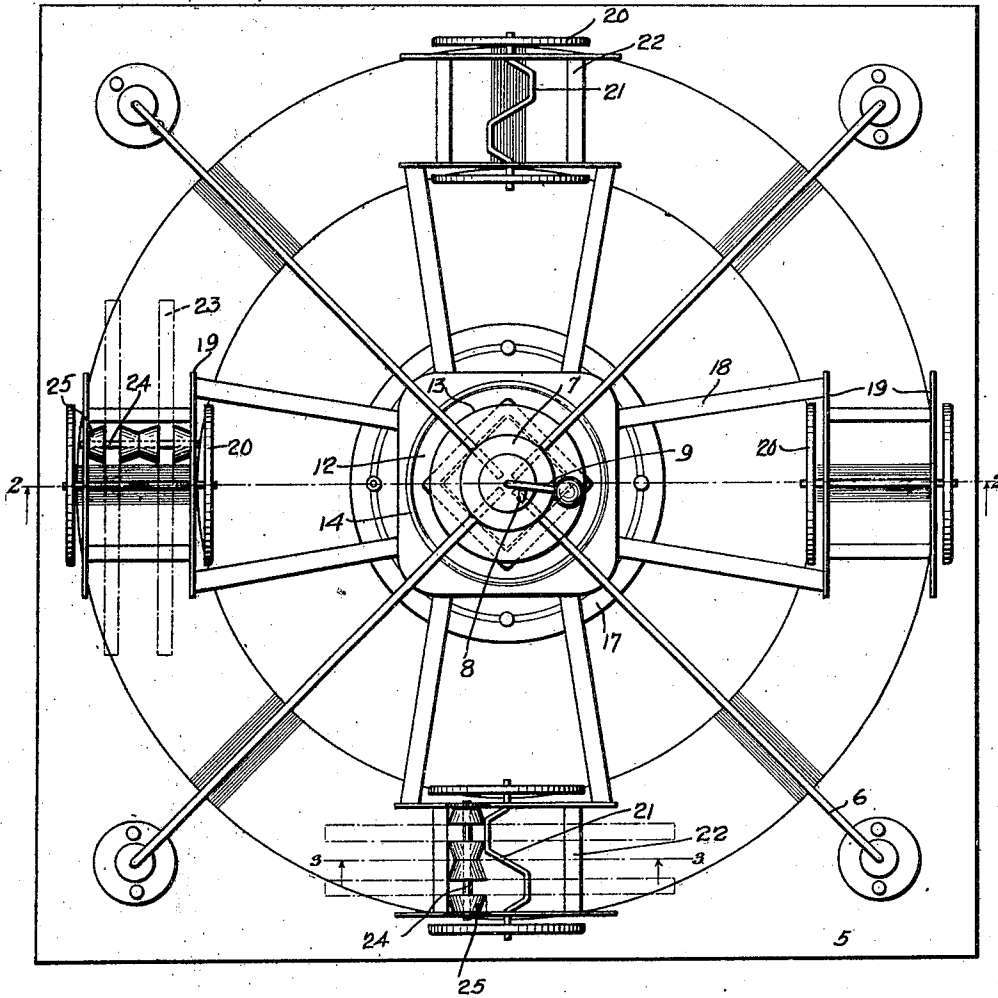
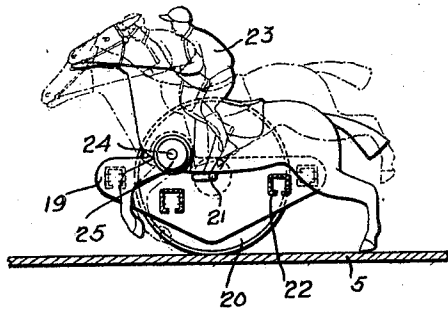


Fig. 3



WITNESSES
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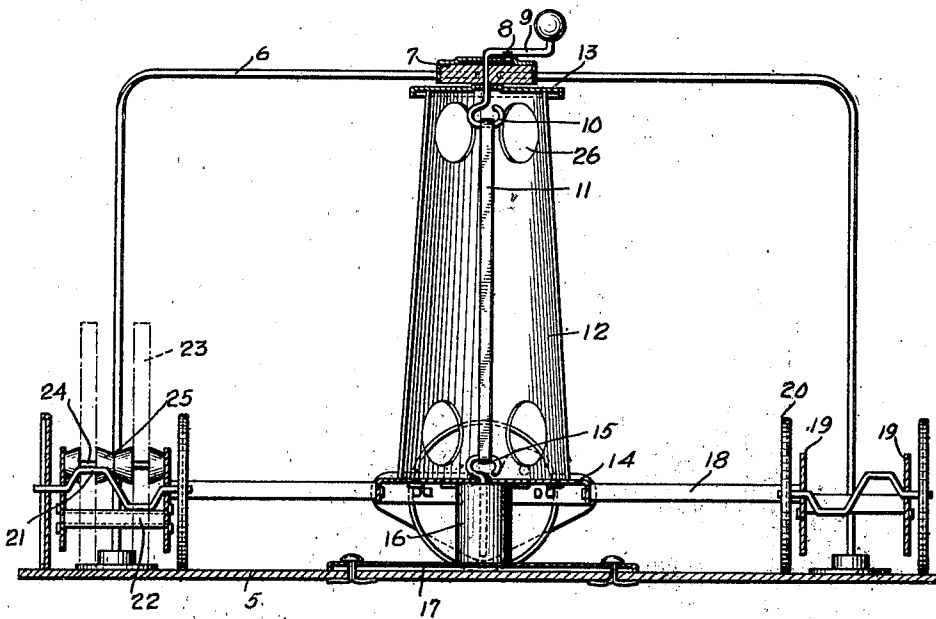
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Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

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To all whom it may concern:

Be it known that I, EDGAR H. TUNLEY, a citizen of the United States, and resident of the city of New York, borough of Brooklyn, county of Kings, and State of New York, have invented a new and Improved Toy, of which the following is a full, clear, and exact description.

My invention relates to a toy, and aims to provide certain new and useful improvements therein.

In connection with power driven toys, it is a well appreciated fact that the motor has added materially to the expense of the finished product, aside from the fact that it is this portion of the mechanism which has been most susceptible to breakage or disarrangement.

Having this in mind my present invention has as its primary object the provision of a driving medium which shall be extremely economical and simple in construction, so that the cost of the toy will be reduced to a minimum, aside from the fact that the liability of breakage or disarrangement of the parts is reduced to a minimum.

Another object of my invention is the provision of a novel form of toy which shall be pleasing in appearance, and fascinating to children, in operation.

Still another object of my invention will become apparent upon reference to the annexed specification, taken in connection with the drawings, which latter present one practical embodiment of the same, and in which;

Figure 1 is a plan view of the toy.

Figure 2 is a sectional side view taken along the line 2—2 and in the direction of the arrows indicated in Figure 1, and

Figure 3 is also a sectional side view taken along the line 3—3 and in the direction of the arrows indicated in Figure 1.

Referring now more particularly to Figures 1 and 2 it will be seen that the reference numeral 5 denotes a base of any desirable material to which the outer ends of a series of radially and downwardly extending arms 6 are secured.

A cap 7 is secured to the inner ends of the arms, and this cap presents a member 8 in the nature of a resilient pawl, which co-operates with a handle 9 rotatably secured to the cap 7, and prevents any movement thereof, in the embodiment illustrated, in a clock-wise direction. The stem of the handle 9 is extended through the cap 7 and

beyond the outer face of the same, and terminates in a hook 10 suitable for engaging and retaining one end of a conventional rubber band 11.

A sleeve 12 simulating a turret encircles the band 11, and has its head 13 reduced so as to provide a minimum of bearing surface in contact with the lower face of the cap 7, thus permitting of a maximum freedom of rotation of the sleeve with respect to the cap.

A base 14 closes the lower end of the sleeve 12, and a secondary hook 15 is secured to this base, and has its shank extending through the same into a spool 16 interposed between the lower face of the element 14, and a supplemental base 17 mounted upon the base 5.

Thus the sleeve 12 and its associated parts may be twisted by means of the handle 9. Upon the sleeve 12 being released, it will be obvious, by virtue of the fact that the hook 10 is held against rotation by means of the pawl 8, that the band 11 will impart a rotation to the hook 15, the base 14 secured thereto and consequently the sleeve 12 attached to the latter.

A series of radially extending arms 18 are secured to the sleeve, and the outer ends of these arms are attached to suitable carriages. These carriages each preferably include spaced side walls 19 supported by wheels 20 bearing against the upper face of the base 5. A crank shaft 21 extends between the side walls 19, and these are further spaced by means of cross arms 22. Suitable figures 23 of any desirable type are rockingly supported upon a shaft 24, and are retained in spaced relationship with respect to each other, by suitable spacing elements 25 also mounted upon this shaft.

Thus a rotation of the sleeve 12 will move the carriages in a circular path, and a contact of the wheels of these carriages with the base 5 will result in a rotation of the crank shaft 21, which, bearing against the under side of the Figures 23 will oscillate the same, as has been indicated in dotted lines in Figure 3.

From the foregoing it will be appreciated that I have constructed a toy which will simulate in appearance and operation, a carousel, and which will be extremely attractive to children, aside from the fact that the operating mechanism is of such simple construction as to virtually preclude

the danger of breakage, or in the event of such breakage, permitting of a replacement being effected through the opening 26 in the sleeve 12, it being also noted that a
5 motive power of this type may be supplied with a minimum of expense.

Obviously numerous modifications of structure might readily be resorted to without in the least departing from the spirit of
10 my invention, which I claim as;

1. A toy, including a base, a sleeve rotatably supported upon said base, means for rotating said sleeve, a plurality of radially extending arms having their inner
15 ends attached to said sleeve, wheel carriages attached to the outer end of said arms, said carriages comprising a pair of spaced side walls, wheels arranged beyond said side walls, a crank shaft extending between said wheels, a shaft extending between said side walls, figures mounted upon
20 said shaft, said crank shaft bearing against the under side of said figures, and spacing

elements also mounted upon said shaft and interposed between said figures. 25

2. A toy, including a base, a series of radially and downwardly extending arms having their outer ends secured to said base, a cap having the inner ends of said arms secured to it, a pawl forming a part of the
30 upper end of said cap, a handle having its stem rotatably extending through said cap, the body of said handle co-operating with said pawl, the stem of said handle terminating in a hook, a sleeve enclosing a hook, a
35 portion of said stem, and bearing against the under side of said cap, a base enclosing the lower end of said sleeve, a spool interposed between said base and first named base, a hook secured to said sleeve, a rubber
40 band interposed between the hook portion of said stem and last named hook, a series of radially extending arms secured to said sleeve, and a plurality of carriages, secured to the outer ends of said last named arms. 45

EDGAR HOWARD TUNLEY.