T. M. SAMOUR.

TOY.

APPLICATION FILED MAR. 26, 1921.

1,419,690. **Patented June 13, 1922.**

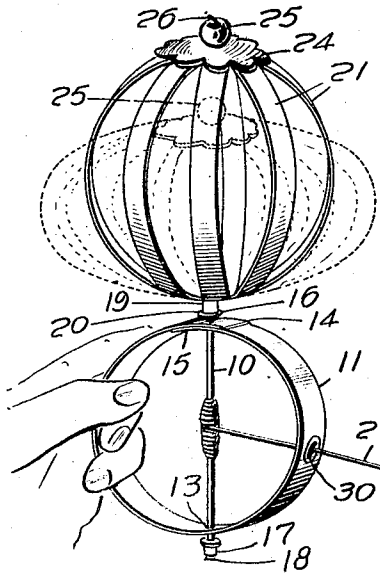


Fig. 1.

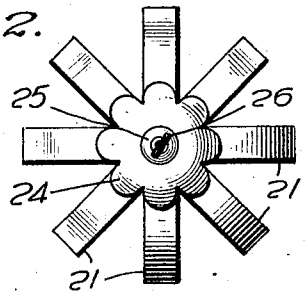
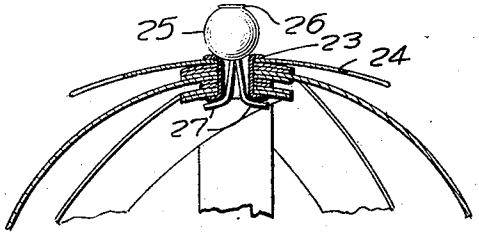
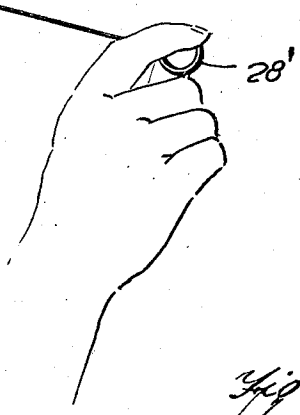


Fig. 2.





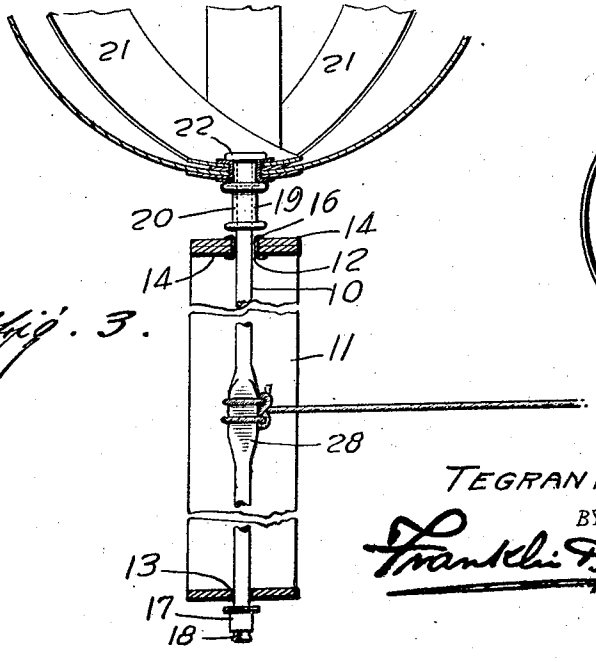


Fig. 3.

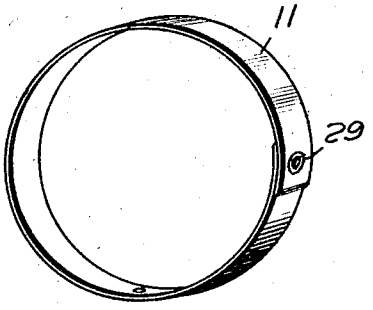


Fig. 4.

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TOY.

1,419,690. Specification of Letters Patent. Patented June 13, 1922.

Application filed March 26, 1921. Serial No. 455,752.

To all whom it may concern:

Be it known that I, TEGRAN M. SAMOUR, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Toys, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to toys and more especially to whirling toys, and has for an object to provide a toy so constructed and of such material as to change its shape during its spinning.

A further object of the invention is to provide improved structure for mounting the said spinning portion of the toy for accommodating the hand of the user and the cord with which the spinning is operated.

A further object of the invention is to provide a toy having a head composed of arcuate flexible strips so secured together as to form the outline of a sphere axially mounted, with means for rotating the sphere upon its axis to employ centrifugal force to change the form of such head from sphericity to an oblate form.

With these and other objects in view the invention comprises certain novel units, elements, parts, features, functions and combinations as will be hereinafter more fully described and claimed.

In the drawings:

Figure 1 is a perspective view of the toy showing the manner of operating and in dotted lines showing the modification of the spherical head to oblate form;

Figure 2 is a top plan view of the device;

Figure 3 is an enlarged sectional view showing the manner of attaching and connecting the several parts, and

Figure 4 is a perspective view of a modified hand hold.

Like characters of reference indicate corresponding parts throughout the several views.

The present invention comprises a toy mounted to rotate upon and with an axial shaft 10, which said shaft is journaled in any approved type of hand hold, as the circular band 11. The band 11 is provided with diametrically opposite perforations 12 and 13, the former preferably formed through the overlapped ends 14 and 15 of the band. To connect the overlapped ends and form a bearing, an eyelet 16 is inserted through such overlapped ends and the shaft 10 inserted through said eyelet and through the diametrically opposite perforation 13. A keeper 17, which may be in the form of an eyelet, is secured upon the extremity of the shaft 10 to retain such shaft in the band 11 and may be secured in any usual and ordinary mechanical manner, as by flattening or upsetting the end of the shaft, as indicated at 18.

Rigidly secured to the shaft 10 upon the side opposite the keeper 17 is a member 19 having a flange 20 having bearing engagement with the eyelet 16 and accommodating the overlapped ends of the several flexible segmental hands 21. The said flexible bands 21 are of any approved material, preferably of celluloid, and for attractiveness are composed of various colors, the said overlapped ends being connected to the member 17 by upsetting the member, as at 22, and the opposite ends are overlapped and secured by an eyelet 23. The overlapping of the several ends forces the said bands 21 to assume curvature and together defining substantially the form of a sphere. For appearances a rosette 24 is secured upon the upper end and secured by the same eyelet 23, which is preferably obscured by a head 25 having a wire 26 inserted therethrough and the ends clinched as at 27.

Centrally within the band 11 the shaft 10 is provided with any approved means for properly engaging the cord 27, as by flattening the shaft, as indicated at 28 in Figure 3, with the cord 27 tied thereto. The cord 27 will also preferably be provided with a ring 28′ to assist the hand in grasping the same.

Instead of employing the overlapped ends of the band for the bearing of the shaft 10, the said overlapped ends may be secured by the eyelet 29, as indicated at Figure 4, through which the cord 27 will extend instead of through the opening 30, as shown at Figure 1. The employment of the overlapped ends as the bearing, however, is preferable and is, therefore, considered the preferred form in the present application. It is obvious that by having the cord wound about the shaft 10, an energetic and continued pull on the cord will unwind the said cord from the shaft 10, rotating the shaft 10 rapidly and therewith the spherical head composed of the several arcuate members 21. By the action of centrifugal force upon these several bands, the head will assume the oblate form shown in dotted lines in said figure.

When the cord has been entirely unwound, the release of the same by the hand pulling will cause the cord to wind again about the shaft by the momentum acquired by the shaft and associated parts in the unwinding. The operation will, therefore, be continuous but intermittent by reason of the reverse winding of the cord about the shaft, and may be continued indefinitely rotating the device in opposite directions by the unwinding of the said cord.

The highly and diversified colors of the bands and the rapid rotation will also serve the purpose of acquainting the user with combinations of colors and will, therefore, prove to be not only a toy but educational as well. The change of the head from sphericity to its oblate form will also be educational in that it will disclose the action of centrifugal force, while also amusing the child using the same.

What I claim to be new is:

1. A toy comprising a journaling member composed of a ring having diametrically opposite bearing perforations, a shaft journaled in the perforations and extending diametrically across the ring, a head secured to the shaft without the ring, said head being composed of a plurality of arcuate bands overlapping each other in line with the axis of the shaft and corresponding substantially to a sphere, and a cord wound about the shaft within the ring.

2. A toy comprising a journaling member, a shaft journaled in the journaling member, a cord wound about the shaft adapted to rotate the shaft intermittently in opposite directions within the journaling member, and a member attached to the shaft without the journaling member composed of flexible bands grouped to normally coincide with a sphere and adapted to change its form from sphericity to spheroidity under the action of centrifugal force from the rotation imparted to the shaft by the cord.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

TEGRAN M. SAMOUR.

Witnesses:
JOHN W. RORKE,
JEAN M. DANIELSON.