Oct. 10, 1950 R. C. HINSEN 2,525,221

WHIRLING SOUNDING TOY

Filed Sept. 29, 1947

Fig. 1

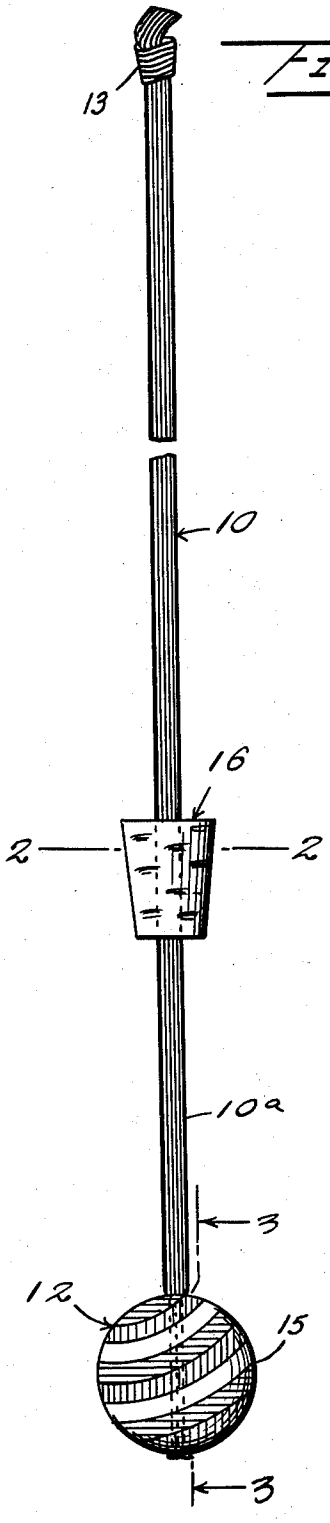


Fig. 2

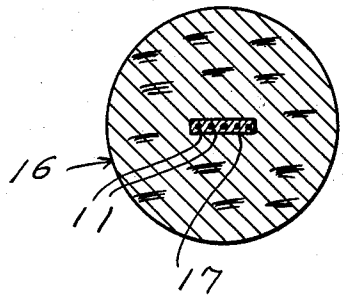
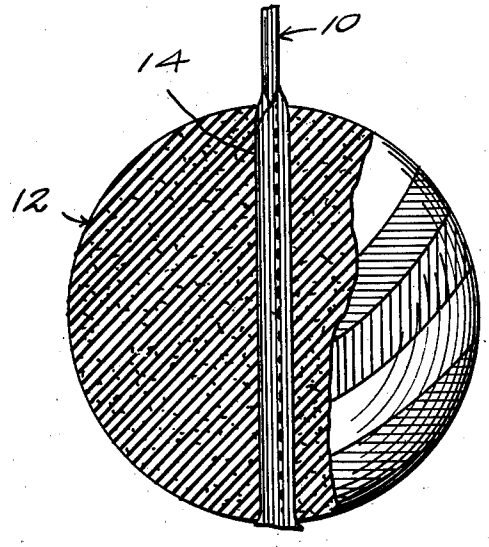


Fig. 3



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WHIRLING SOUNDING TOY

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4 Claims. (Cl. 46—52)

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This invention relates to toys and more particular to toys of the spinning or whirling type which generate sound.

An object of this invention is to provide a toy which will be a source of amusement to children or adults, the toy being constructed in the form of an elongated elastic cord on one end of which is secured a ball or weight which will act to stretch the cord under centrifugal force so that the cord will vibrate and produce a hum during the whirling of toy.

Another object of this invention is to provide in a toy of this kind an adjustable tone regulating member which is adjustable lengthwise of the cord so as to thereby provide increased or decreased vibrations of the cord and consequent variations in the tone or sound produced thereby.

A further object of this invention is to provide a toy of this kind which is of simple construction and will not get out of order under hard usage, and can be used by quite small or large children.

A further object of this invention is to provide a toy of this kind which will not only be a source of amusement, but also embodies educational features relative both to the action of centrifugal force and to tonal qualities of vibrant elastic cords.

To the foregoing objects, and others which may hereinafter more fully appear, the invention consists of the novel construction, combination and arrangement of parts, as will be more specifically referred to and illustrated in the accompanying drawings, but it is to be understood that changes, variations, and modifications may be resorted to which fall within the scope of the invention as claimed.

In the drawing:

Figure 1 is a detailed side elevation, partly broken away of a toy constructed according to an embodiment of this invention.

Figure 2 is a sectional view taken on the line 2—2 of Figure 1.

Figure 3 is a fragmentary sectional view, partly in elevation, taken on the line 3—3 of Figure 1.

Referring to the drawing, the numeral 10 designates generally an elongated elastic cord or tape which is flat as clearly shown in Figure 2

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and is provided with interwoven elastic strands 11. The cord 10 is formed with a knot 13 at the inner end thereof and at the other or outer end the cord 10 has mounted thereon a ball or weight 12. The ball or weight 12 is formed with an opening 14 extending therethrough and the cord 10 is extended through this opening and firmly fixed therein. The ball 12 is preferably formed of rubber, such as sponge rubber or the like and the outer surface 15 of the ball 12 is preferably smooth and coated with suitable decoration so as to provide an attractive article.

A tone regulating member 16 is mounted on the cord 10 inwardly of the ball 12 and is lengthwise adjustable on the cord 10. In the present instance the tone regulating member 16 is constructed in the form of a cork which is formed with an opening 17 through which the cord 10 engages. The tone regulating member 16 is frictionally held against endwise movement, the opening 17 being such that the tone regulating member 16 will frictionally maintain its adjusted position along the length of the cord 10.

In the use and operation of this toy the inner end is held in one hand and the cord is then swung around in a circle. The length of cord 10*a* which is disposed between the tone regulating member 16 and the ball 12 will vibrate under the swinging of the cord and these vibrations will be audible when the cord is swung at a rapid rate. The adjustment of the tone regulating member 16 toward or from the ball 12 will provide for increase or decrease in the audible vibrations so that this device will not only provide an article of amusement for a child but will also provide an instructive or educational device which will teach the child variations in tone due to the auditory vibrations of the flat cord as it is rapidly swung around in a circle. When the cord is swung in a circle, the ball 12 will cause the cord to stretch, the tension of the cord being determined by the rapidity of the swinging of the cord and ball.

I claim:

1. A toy comprising an elongated flat elastic cord and a spherical shaped weight on one end of said cord whereby rapid swinging of said cord will effect stretching and tensioning thereof and will also effect audible vibration of said cord.

2. A toy comprising an elongated flat elastic

cord, and a slotted spherical weight on one end of said cord whereby rapid swinging of said cord and weight will effect a stretching and tensioning of said cord and will also effect audible vibration thereof.

3. A toy comprising an elongated flat elastic resonant cord, a weight on one end of said cord adapted upon rapid swinging of said cord and weight to effect stretching and tensioning thereof and also effect auditory vibration of said cord, and a body carried by said cord adjustable lengthwise thereof for varying the vibration of said cord.

4. A toy comprising an elongated flat elastic cord, a weight on one end of said cord whereby rapid swinging of said cord and said weight will effect stretching and tensioning of said cord to produce variable vibrations, and a body carried by said cord and adjustable along the length thereof for varying the frequency of the vibrations of said cord.

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