Dec. 15, 1953 H. S. BURKEY 2,662,337

SOUNDING WHIRLING DISK TOY

Filed Oct. 28, 1950

FIG. 2

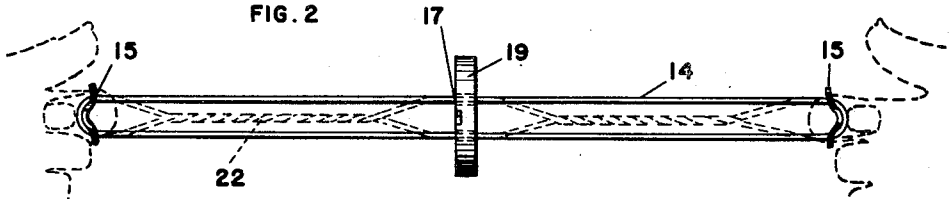


FIG. 3

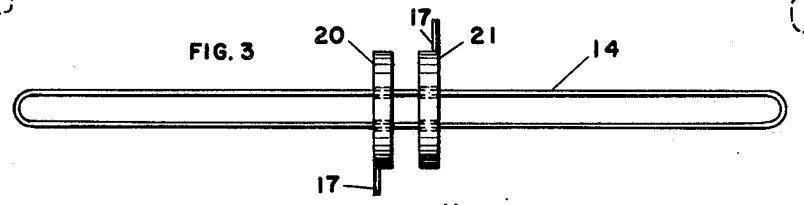


FIG. 4

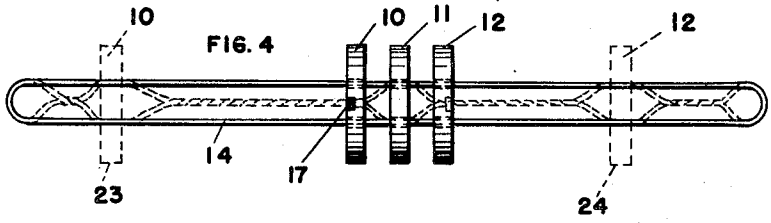


FIG. 5

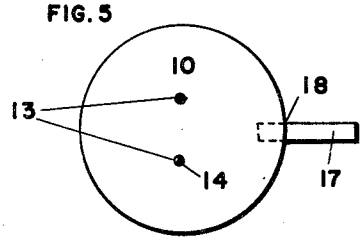


FIG. 6

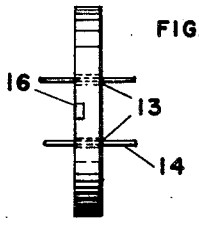
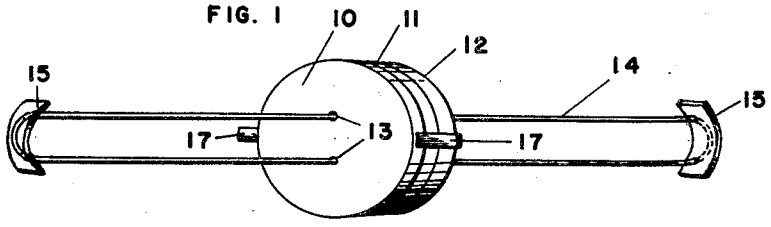


FIG. 1



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SOUNDING WHIRLING DISK TOY

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1 Claim. (Cl. 46—63)

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This invention relates to a toy of the class known as whirligigs or spinners.

The object of the invention is to provide a novel toy which requires a certain amount of skill to use and which will provide amusement for children.

A further object of the present invention is to provide a spinning toy which will produce a humming sound when spun at the correct speed.

It is a still further object of the present invention to provide the toy either with a single spining disc, two discs or a plurality of discs.

It is a still further object to provide a toy which is cheap and easy to manufacture and which may carry an advertisement on the face of the toy and be used as a give-away to promote good will or advertise a certain product.

With the foregoing and other objects in view, the invention resides in the novel arrangement and combination of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein described may be made within the scope of what is claimed without departing from the spirit of the invention.

The invention is shown in the accompanying drawing in which:

Figure 1 is a perspective view of the toy shown with three discs.

Figure 2 shows the toy with one disc with the addition of dotted lines showing the toy in operation.

Figure 3 shows the toy as made up with two discs.

Figure 4 shows the toy with three discs shown in solid lines as stationary and in dotted lines in one of the positions possible during a spinning operation.

Figure 5 is a side view of one of the discs showing the attachment of the rubber strip for producing the humming sound.

Figure 6 is a detail view of one of the discs showing the insertion of the rubber strip and the position of the cords through the disc.

Referring particularly to Figures 1 and 4, the invention is shown with three discs 10, 11 and 12 which are formed with a pair of holes 13 located on a diameter and ⅓ of the distance from the center of the disc. This positioning of the holes is important to produce the correct twist in the cord to provide the maximum spin with ease of operation. Through the holes is threaded an endless cord 14 which is provided at its ends with finger pads 15 to prevent cutting of the fingers with the cord during the spinning operation.

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The individual discs are similar in construction, disc 10 being taken for purposes of description in Figures 5 and 6. These discs are provided with a radial slot 16 into which is inserted a rubber strip 17 secured by adhesive or any suitable means. The length of this strip 17 must be ¾ of an inch from the point 18 on the circumference of the disc to the end of the strip in order to provide the necessary vibration to produce the humming sound. Strips longer than this or shorter than this will not produce the desired vibration.

Disc 19 in Figure 2 and 20 and 21 in Figure 3 are similar to disc 10 and shown here as separate figures to show the variations in which the toy may be made. They are each provided with the same endless string 14 and the finger pad 15, as well as the rubber strip 17. The rubber strip 17 is mounted at right angles to a line through the holes 13. When the discs are assembled in pairs they are threaded on the cord so that alternate discs have the rubber strip on opposite sides. In Figure 3 it will be noted that when the discs are at rest, the rubber strip 17 is located on opposite sides of the toy which produces a balance during the spinning operation.

In operation the toy is started by swinging the discs in a short arc to produce a twisting of the cord, as shown in Figure 2 at 22. Subsequent pulling of the fingers away from each other and relaxing the pull causes the disc to spin in alternate directions producing the vibration of the rubber strip, producing a humming sound during the spinning operation.

Referring particularly to Figure 4, the discs through constant practice and skillful manipulation may be separated, as shown at 23 and 24, the rope then provided with a double or triple twist and the discs caused to spin in opposite directions. The separation of the discs along the cord during the spinning operation requires considerable skill and manipulation of the tension put on the cord and on the whole produces an amusing toy.

What is claimed is:

A whirling disc toy comprising a pair of discs each formed with a pair of opposed holes, located on a diameter and each being at a distance of ⅓ of the radius from the center, a notch formed on one side of each of said discs adjacent the periphery of said disc and extending slightly inward along a radial line, a rubber strip equal in width to the width of said notch and in thickness to the depth of said notch, cemented in said notch so as to present a smooth exterior surface and extending outward from the periphery ¾ of

an inch, an endless cord having two runs passing through said pairs of opposed holes, said discs being mounted on said cord so that in untwisted condition the rubber strips are diametrically opposed to each other whereby rotation of the discs by twisting of the cord causes a vibration of said rubber strips.

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