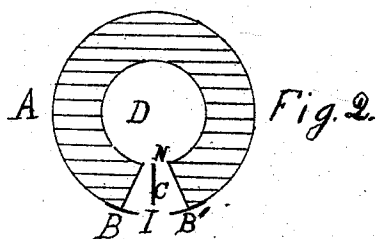
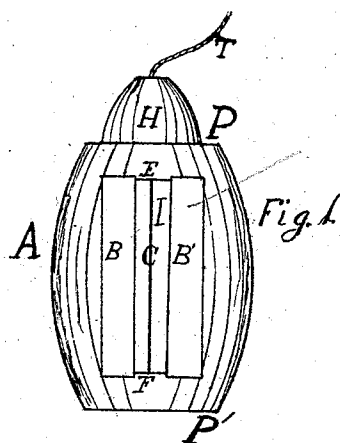


C. BALL.
Toys.

No. 138,365.

Patented April 29, 1873.



Witnesses.

N. C. Hawes
John D. Fitch

Inventor.

Corland Ball

UNITED STATES PATENT OFFICE.

CORTLAND BALL, OF AUGUSTA, ASSIGNOR OF ONE-HALF HIS RIGHT TO
THOMAS MARRIOTT, OF DETROIT, MICHIGAN.

IMPROVEMENT IN TOYS.

Specification forming part of Letters Patent No. **138,365**, dated April 29, 1873; application filed
December 14, 1872.

To all whom it may concern:

Be it known that I, CORTLAND BALL, of Augusta, Michigan, have invented certain Improvements in Toys, of which the following is a specification:

This toy is designed to amuse children by the various musical sounds, which may be produced by revolving it through the air, attached to a string or cord, one end of which is held in the hand.

In order that others may fully understand the nature of my invention, I will proceed to describe its construction.

Figure 1 is a representation of my invention. Fig. 2 is a sectional view.

Fig. 1. The main part A is an oval-shaped piece of wood, which should be made about two (2) inches long, more or less, from P to P', and about one and a half ($1\frac{1}{2}$) inches in diameter, more or less, through its center. The ends P P' should be about one inch in diameter. The cone H at the base is made about three-fourths ($\frac{3}{4}$) of an inch through, and tapers to about one-fourth ($\frac{1}{4}$) of an inch at the top, and it is about three-fourths ($\frac{3}{4}$) of an inch high from its base. The main part A, Fig. 1, is hollow, as shown at D in Fig. 2. This is made three-fourths ($\frac{3}{4}$) of an inch, more or less, in diameter, and is bored in from the end F and extends to within about one-fourth ($\frac{1}{4}$) of an inch of the base of the cone H. The end F is provided with a stationary stopple.

Fig. 1. The main part A is provided with a mouth, as shown at I, which should be made about one and a half ($1\frac{1}{2}$) inch long and one-half ($\frac{1}{2}$) inch, more or less, wide, and tapers down to about one-fourth ($\frac{1}{4}$) inch wide at the throat N, as shown in Fig. 2.

Fig. 1. The lips B B' are made of thin sheet brass or of any other suitable material, and may be fastened with small tacks or screws to the ends E and F. The lips B B', it will be seen in Fig. 2, do not cover the entire mouth I; each lip should extend about one-eighth ($\frac{1}{8}$) of an inch over the mouth I, as shown in Fig. 2.

Fig. 1. C is a tongue, which may be made of Mexican reed, skin, or any suitable material, and is firmly attached to the ends E and F with cement or glue. The inner edge of the tongue C should extend down flush with the hollow D, as shown in Fig. 2. The outer edge of tongue C does not come up quite even with the inner edge of the lips B B', as clearly shown in Fig. 2. The tongue C should be put in a little slack so as to allow it to vibrate.

Fig. 1. T represents a section of two (2) small cords twisted together, which should be about two (2) feet long; the cord before it is doubled should be four (4) feet long; when doubled fasten the two ends firmly to the cone H; the other end is looped through and around the wire of a small ring, which is held in the hand when operating my invention.

The manner in which it is used is as follows, viz: Take hold of the ring and revolve the toy through the air by swinging the hand a little in a circular course. By having the cord T double it will twist up, and then when it untwists it gives it a twofold circular motion, which produces a variety of sweet musical sounds.

I consider the form shown in the annexed drawing to be the most appropriate, yet I do not desire to confine myself to that or any other particular shape. I also desire to reserve the right to make them either with or without the tongue C, or with or without the lips B B'.

Fig. 1. The main part A, with the cone H, may be made of wood or any suitable material.

Having thus fully described my invention, what I claim to be new, and desire to secure by Letters Patent, is—

The hollow whirling-toy A B C, constructed for use, substantially as described.

CORTLAND BALL.

Witnesses:

WALLACE H. HORTON,
LOUIS A. MCCREARY.