

C. E. BALDWIN.
Toys.

No. 149,908.

Patented April 21, 1874.

Fig. 1.

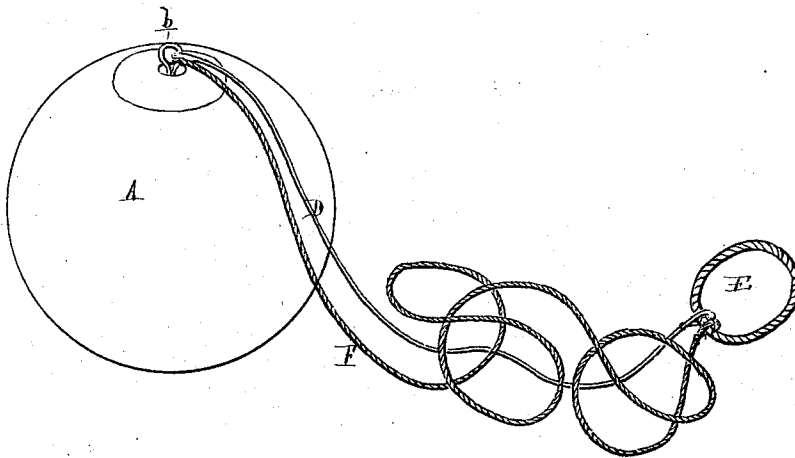
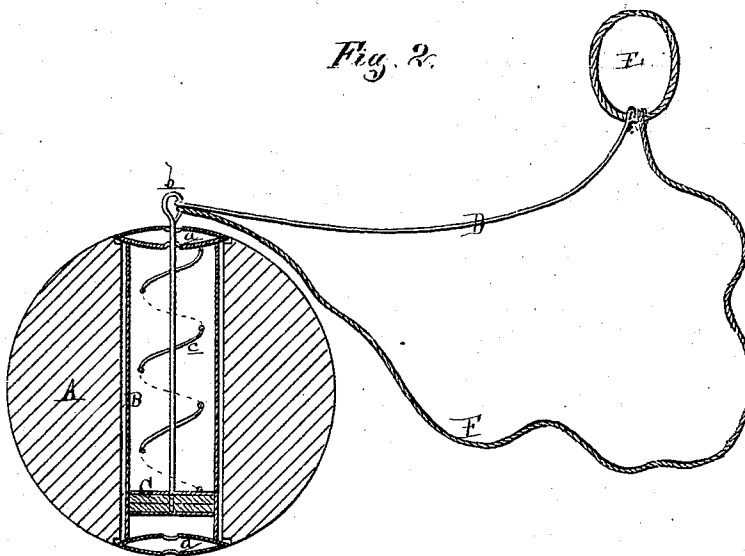


Fig. 2.



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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN TOYS.

Specification forming part of Letters Patent No. **149,908**, dated April 21, 1874; application filed February 24, 1874.

To all whom it may concern:

Be it known that I, CHARLES E. BALDWIN, of San José, in the county of Santa Clara and State of California, have invented an Improvement in Musical Toys, of which the following is a specification:

This invention has for its object to combine with the well-known "return-ball" one or more whistles, which will give a musical sound on the projection and recoil of the ball; and it consists in making in such a ball a cylindrical hole for the reception of a tube having a whistle at each end, with an internal piston and spiral spring. The piston-rod extends through the aperture of one whistle, and has attached to it one end of a cord, which is longer than the usual elastic cord, and its other end is attached to the same ring as the elastic cord is secured to, the whole being arranged to operate as more fully hereinafter set forth.

Figure 1 is a perspective view. Fig. 2 is a cross-section of the ball and whistles.

In the drawing, A represents a wooden ball with a hole bored through it to receive a cylinder, B, having at each end a pair of convex sheet-metal circular plates, *a a*, with a central aperture in each plate, each pair forming a whistle. C is a piston loosely fitted in the cylinder, with a piston-rod, *b*, extending through the apertures of one whistle. *c* is a spiral spring interposed between one whistle and the piston, to force the latter toward one end of

the cylinder. To the end of the piston-rod is secured one end of an elastic cord, D, the other end of which is secured to the ring E, which is held by the player. F is a cord of more than the normal length of the elastic cord, but less than the length to which the latter can safely be stretched, one end being secured to the ring and the other to the piston-rod. As the ball is thrown away from the player, the elastic cord will stretch until the cord F is strained, when the piston will be drawn toward the top of the cylinder, expelling air from that end and drawing it in at the other, producing a musical sound. As the ball returns the spring will force back the piston, reversing the currents of air, and thus produce tones from both whistles in each movement of the ball.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A toy return-ball inclosing a whistle, provided with a piston attached to an elastic and to a non-elastic cord, substantially as described.

2. The ball A, cylinder B, provided with the whistles *a a*, the piston C, rod *b*, spring *c*, elastic cord D, ring E, and non-elastic cord F, constructed and arranged to operate substantially as set forth.

CHARLES E. BALDWIN.

Witnesses:

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CARL BEER.