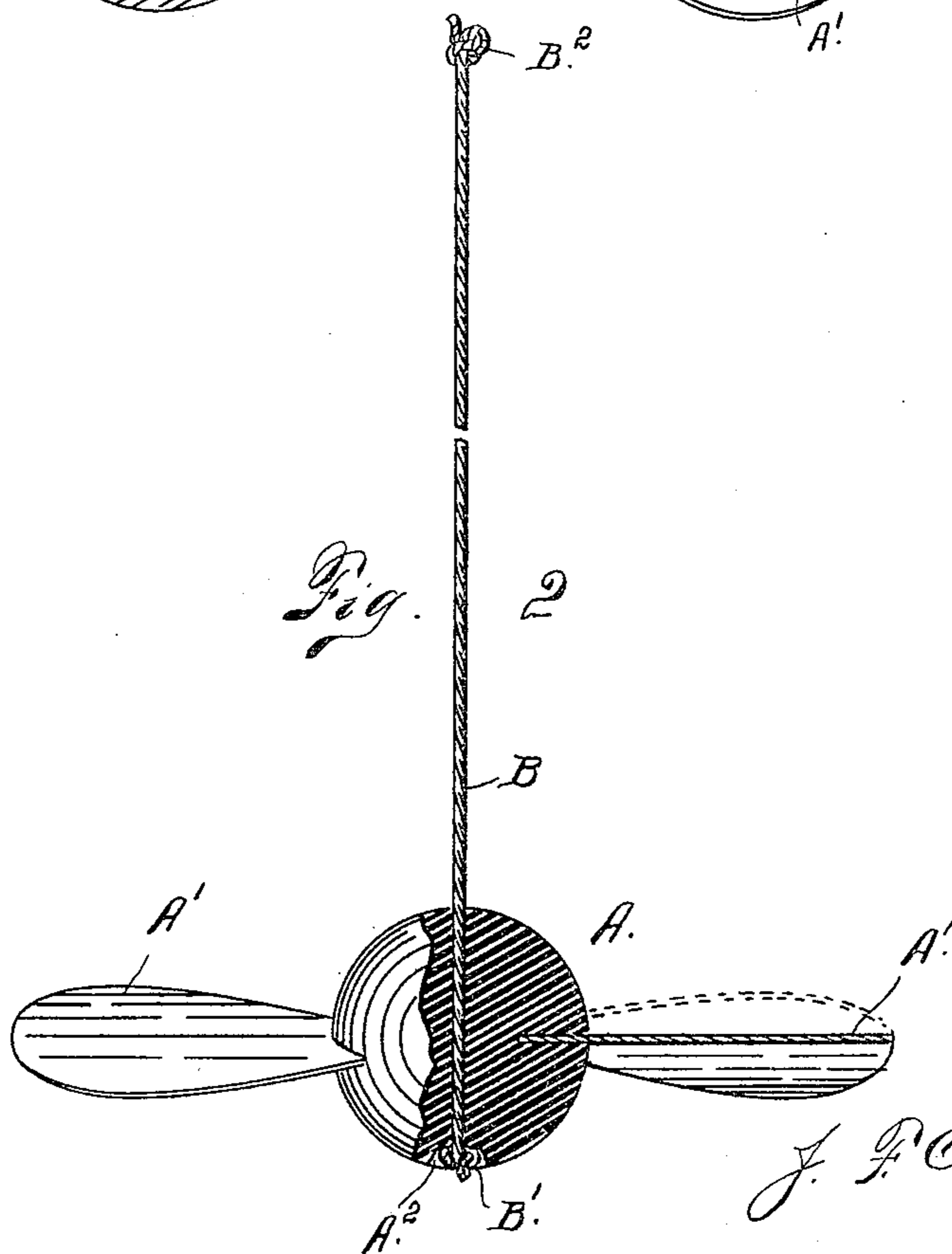
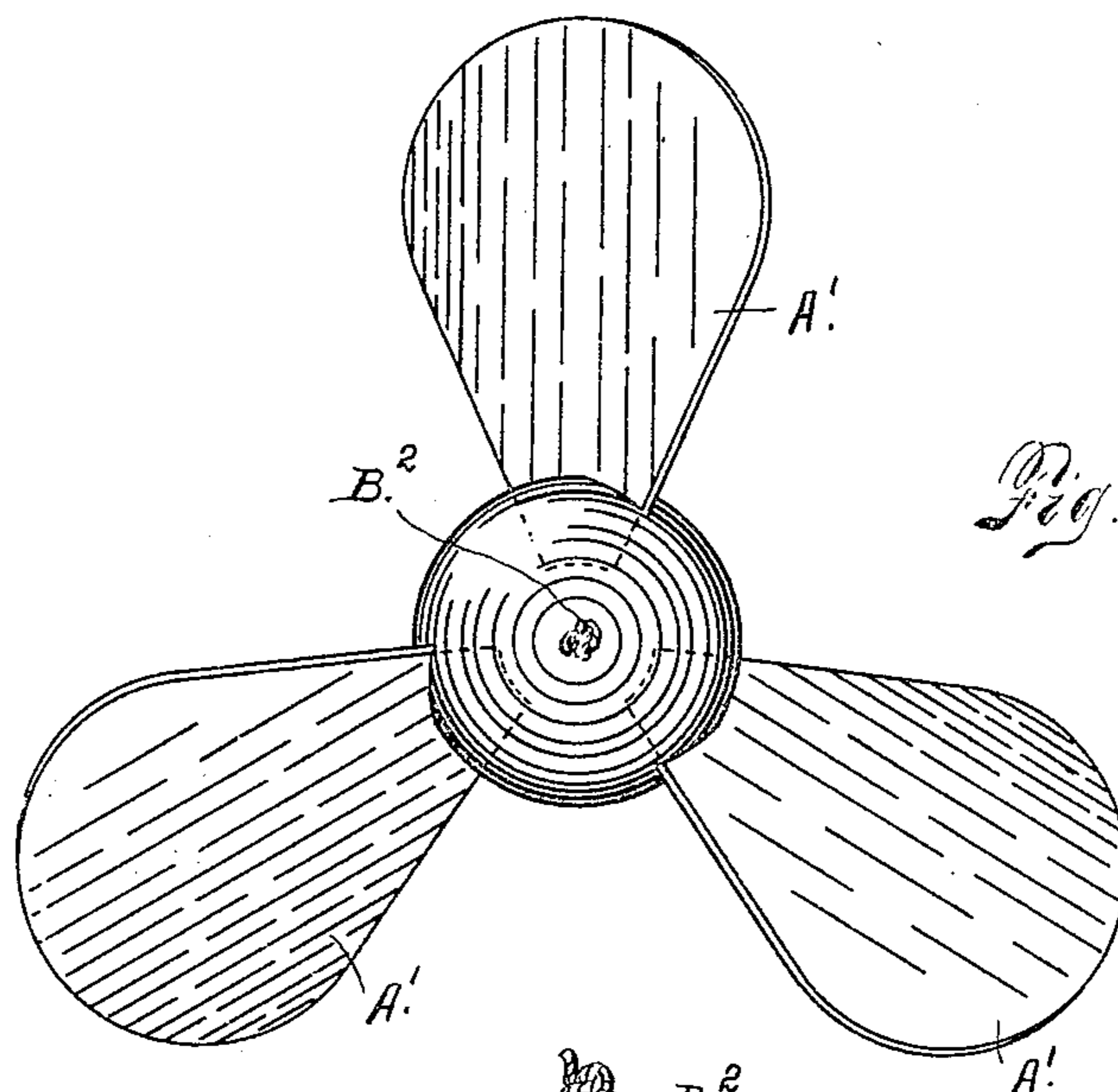


No. 801,145.

PATENTED OCT. 3, 1905.

J. F. E. FELTNER.
TOY BALL.

APPLICATION FILED JUNE 3, 1904.



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN F. E. FELTNER, OF LEADVILLE, COLORADO.

TOY BALL.

No. 801,145.

Specification of Letters Patent.

Patented Oct. 3, 1905.

Application filed June 3, 1904. Serial No. 210,924.

To all whom it may concern:

Be it known that I, JOHN F. E. FELTNER, a citizen of the United States, residing at Leadville, in the county of Lake and State of Colorado, have invented certain new and useful Improvements in Toy Balls; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to a ball provided with blades or wings inclined to cause the ball to whirl or rotate as it is thrown through the air. The ball is composed of india-rubber, since this material gives it the desired weight and durability. The elasticity of the rubber is also an important feature in the use or operation of the device. The wings may be applied to the ball at the time the latter is vulcanized, or they may be attached in any other suitable manner. In this ball is anchored a cord or other suitable flexible device to facilitate the rapid throwing of the ball through the air.

Having briefly outlined my improved construction, as well as the function it is intended to perform, I will proceed to describe the same in detail, reference being made to the accompanying drawings, in which is illustrated an embodiment thereof.

In the drawings, Figure 1 is a top view of my invention. Fig. 2 is a side elevation of the same, partly in section.

The same reference characters indicate the same parts in both views.

Let A designate the ball, which, as shown in the drawings, is composed of rubber. Set into this ball is a number of wings or blades A' in such a manner that when the ball is driven through the air it will rotate by virtue of the action of the air on the blades. The inner extremities of these blades are set into the ball a suitable distance to obtain the desired security or anchorage therefor. Through the center of this ball on a diameter centrally located with reference to the wings is passed a cord B, which, as shown in the drawings, is knotted adjacent the ball, as shown at B', the knot taking a position in a recess A² of the ball. This cord may be fastened by vulcanization or in any other suitable manner. The

extremity of the cord remote from the ball is preferably knotted, as shown at B², for convenience in manipulating the device and to prevent the cord from unraveling.

In using the device it is held suspended by this cord and swung around to develop sufficient centrifugal force, so that when the cord is released the ball will fly through the air a considerable distance. As it moves along the inclined blades cause it to rotate around the center, through which the cord passes. After the force with which it is propelled has been spent it begins its downward movement by gravity, and the blades cause it to rotate in the reverse direction. It becomes a very attractive toy and one which has great durability when it is properly constructed.

The elasticity of the ball causes the device to recoil or rebound a considerable distance when it comes in contact with a stationary object, as when it returns to the ground after an ascent or when it is hurled against the wall or other similar object. This reverse movement of the ball, due to its elasticity and the resulting rotary action during the recoil or rebound, add greatly to the amusement afforded therefrom and enhance its value as a toy of the class described.

Having thus described my invention, what I claim is—

1. A toy of the class described, comprising an elastic ball, blades set into the ball to cause the latter to rotate as it travels through the atmosphere, the said blades being centrally located around the ball, whereby a considerable portion of the latter is located forward of the blades in the direction of travel forming an elastic striking-surface, and a flexible device anchored in the ball on the line of its axis.

2. A toy of the class described, comprising an elastic projectile, blades attached thereto to allow a considerable portion of the projectile to extend forward of the blades in the direction of travel forming an elastic striking-surface, the blades being connected with the projectile to cause the latter to rotate as it travels through the atmosphere.

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

JOHN F. E. FELTNER.

Witnesses:

JOHN S. CHRISTIANSON,
B. A. BENSON.