Oct. 7, 1941. J. M. LORER 2,257,971

AERIAL SPINNING TOY

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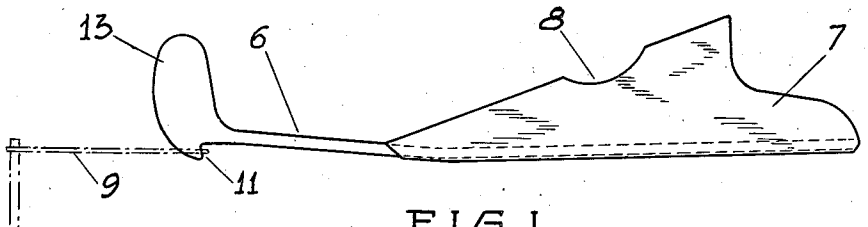


FIG. 1

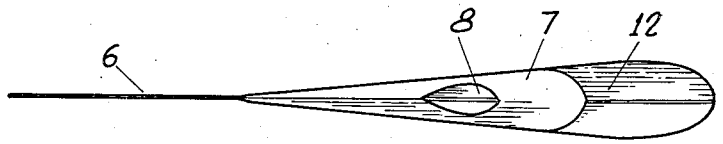


FIG. 2

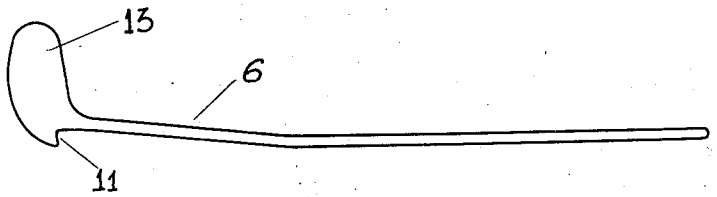


FIG. 3

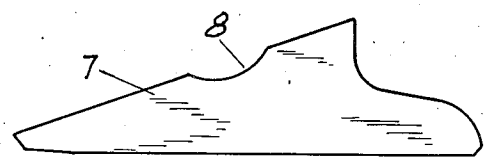


FIG. 4

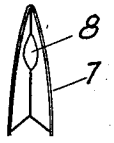


FIG. 5

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AERIAL SPINNING TOY

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2 Claims. (Cl. 46—51)

This invention relates to improvements in aerial spinning toys.

In the accompanying drawing which serves for illustrating the invention:

Fig. 1 is a side view of the toy and the catapult for throwing it into the air.

Fig. 2 is a top view of the toy in flight with feather open.

Fig. 3 is a side view of the arrow with feather.

Fig. 4 is a side view of feather before attachment to the arrow shown in Fig. 3.

Fig. 5 is a rear view of feather.

The object of this invention is a spinning toy to be shot into the air with a catapult, and it consists of a rigid arrow with a weighted tip, a notch for the elastic of the catapult on the lower portion of the tip, a rigid arrow and a bag on the upper side of the arrow, the closed portion of the bag having its position towards the tip of the arrow, and having a hole in the bag between the closed portion and the open end for the air to enter while the arrow is in flight, so that the air may enter to inflate the bag while in flight at high speed, and which allows the bag to close when the speed diminishes, and the feather being on one side only of the arrow, will cause it to spin as it descends, the action being similar to certain seed pods similar to the elm and maple trees.

The arrow 6, is flat having a tip 13, preferably in the form of a vane, above the arrow and a notch 11, into which the loop of the elastic band 9 is hooked and the stick 10 is drawn away by one hand in the direction in which the toy is to be shot, the end of the arrow being held by the other hand and the elastic drawn taut, and when the arrow is shot the feather 7, which is secured to the arrow 6 by being doubled and fastened with its closed end in the direction of flight of the toy. In the bag 7 there is a hole 8 and when the toy is catapulted the air enters the bag 7 through the hole 8 and the bag 7 is inflated while the flight of the toy is rapid, the air entering at hole 8 passing out of the bag through the opening 12, which can be large or small as required.

As the toy loses its speed the air entering through hole 8 is diminished, the bag closes and the toy will spin as it descends. Preferably the tip of the arrow 13 is in the form of a vane on the same side of the arrow as the bag 7.

Having thus described my invention, I claim:

1. A vane for a spinning toy, comprising an arrow, a triangular bag rigidly attached to the upper side of the arrow, the apex of the bag in the direction of flight, a hole in the upper part of the bag, the end of the bag open, the bag made of resilient material such as substantially stiff paper, to keep the bag closed, or collapsed while travelling at slow speeds, and inflated to act as a feather on an arrow, when the arrow is moving swiftly, but the paper of the bag being sufficiently resilient to close the bag when the movement is slow, thereby to form a lopsided or single vane, whereby the toy will spin as it descends.

2. A spinning toy comprising in combination an arrow with a triangular paper bag rigidly attached to the upper side of the arrow said bag consisting of a substantially stiff resilient paper, the apex of the paper bag facing in the direction of the flight of the arrow, the bag open at the rear end, a hole in the upper sides of the bag about midway between the apex and the base to allow the bag to be inflated by the pressure of air when the arrow is travelling fast, and the paper of the bag to be sufficiently resilient to collapse the bag when the arrow is travelling slowly, so that the bag will be a single lop-sided vane, thereby causing the arrow to spin.

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