

F. A. TOWNSLEY.
FLYING TOP.
APPLICATION FILED JUNE 2, 1914.

1,174,951.

Patented Mar. 7, 1916.

Fig. 1.

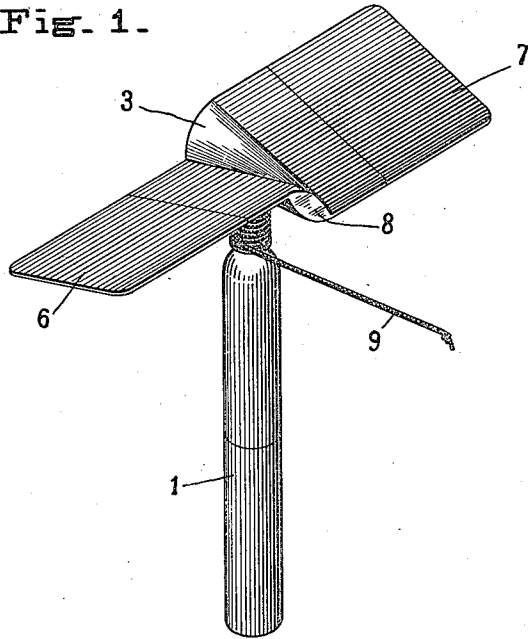


Fig. 2.

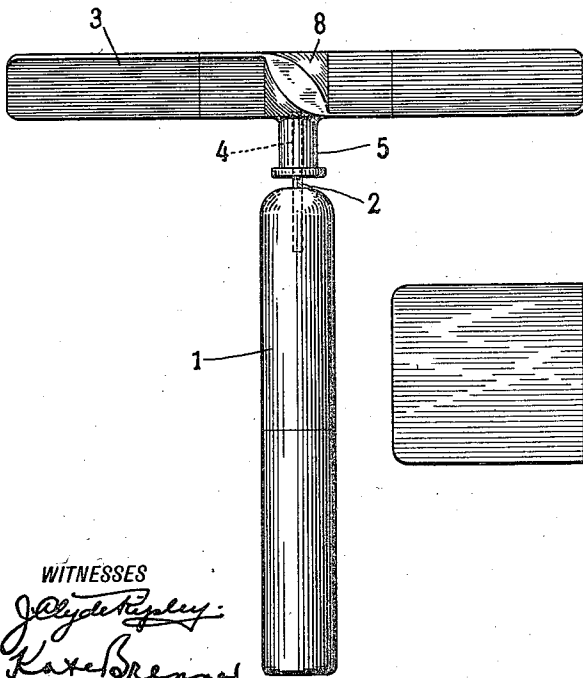
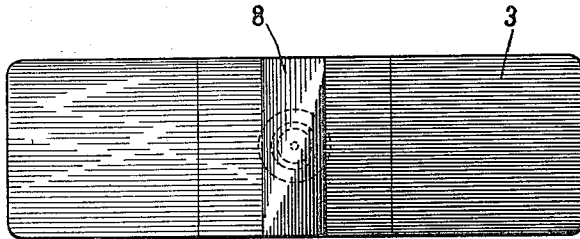


Fig. 3.



WITNESSES
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UNITED STATES PATENT OFFICE.

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FLYING-TOP.

1,174,951.

Specification of Letters Patent.

Patented Mar. 7, 1916.

Application filed June 2, 1914. Serial No. 842,345.

To all whom it may concern:

Be it known that I, FREDERICK A. TOWNSLEY, a citizen of the United States, and a resident of Middletown, in the county of Orange and State of New York, have invented certain new and useful Improvements in Flying-Tops, of which the following is a full, clear, and exact description, whereby any one skilled in the art may make and use the same.

The invention relates to toys and particularly to one of the top type which will have a free flying movement in the air.

The object of the invention is to provide a very simple device capable of being manipulated by a child and in which a spinning member may be rotated at a high rate of speed and with such a conformation that it will rise to a considerable height when once brought up to speed.

Referring to the drawings: Figure 1 is a perspective view of the device. Fig. 2 is a view in side elevation. Fig. 3 is a top plan view.

The device hereinafter described is composed essentially of two parts which are separable one with reference to the other and so arranged that as one of the members is held in stationary position and motion is imparted to the second member, said rotary member will, when it has received a certain speed of rotation, automatically rise in the air and maintain a balance which will give it a prescribed flight.

In the accompanying drawings, the numeral 1 denotes a handle or support which, at its upper end, has a projecting pin 2 which acts as a pivot and support for the "top" or flying member 3. This top member has a central opening 4 formed through a winding drum 5 which is located centrally of the "top" member. The central opening 4 is arranged to fit loosely upon the pin 2.

The top or flying member 3 is preferably formed from a single piece of material and has two blades 6, 7 angularly disposed with reference to a central portion 8. The blades 6 and 7 are disposed at an angle with reference to each other and with the central portion 8 form, what is in effect, a propeller.

The blades may be of any desired shape and type and may be made integral with the central portion and winding drum or may be made of separate parts attachable thereto. The winding-drum 5 is of sufficient dimensions and has a conformation as illustrated so that a cord or string 9 may be wound about it.

Whenever the cord 9 is placed under tension and pulled from the drum, the top member is very rapidly spun upon its pin or pivot 2 and as soon as the string is unwound from the drum, the "top" will rise owing to the shape of the blades 6 and 7.

The central portion is of considerable weight and of substantially elliptical form in cross section. This central portion gives a balancing weight to the blades so that the device will remain in substantially horizontal position as it rises and as it falls.

It is apparent that the exact form, shape, and detail of the various parts might be varied to a considerable extent without departing from the spirit or intent of the invention.

The device herein shown illustrates the blades as of substantially rectangular form arranged transversely to each other and to a central joining portion which forms the balancing weight of the device.

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

1. A flying top having a standard or support and a rotary member having blades joined at an angle with a thickened beveled line of juncture and a bearing upon the support, a winding drum upon the blades and a cord for imparting rapid rotation to the blades.

2. A flying top comprising two separable members, one pivotally mounted upon the other, the pivoted member adapted to whirl and having blades angularly disposed with reference to each other and centrally joined with an enlarged weighted transverse member and having a centrally disposed winding drum and a cord wound upon said drum for spinning said blades.

3. A flying top comprising two separable members, one pivotally mounted upon the

other, the pivoted member adapted to whirl and having blades angularly disposed with reference to each other and having a centrally disposed winding drum, a cord wound upon said drum for spinning said blades, and a weight transversely disposed between and equally disposed and merging into the plane surfaces of the blades whereby the blades are maintained in equilibrium with reference to each other.

FREDERICK A. TOWNSLEY.

Witnesses:

ELMER H. LEMON,
E. N. GREEN.