June 20, 1933. C. F. BRYAN 1,914,822

KITE

Filed May 6, 1931

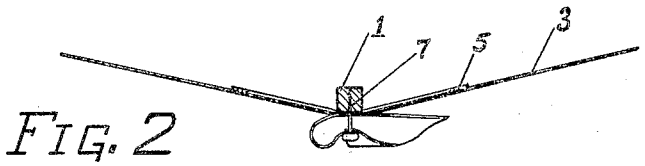


FIG. 2

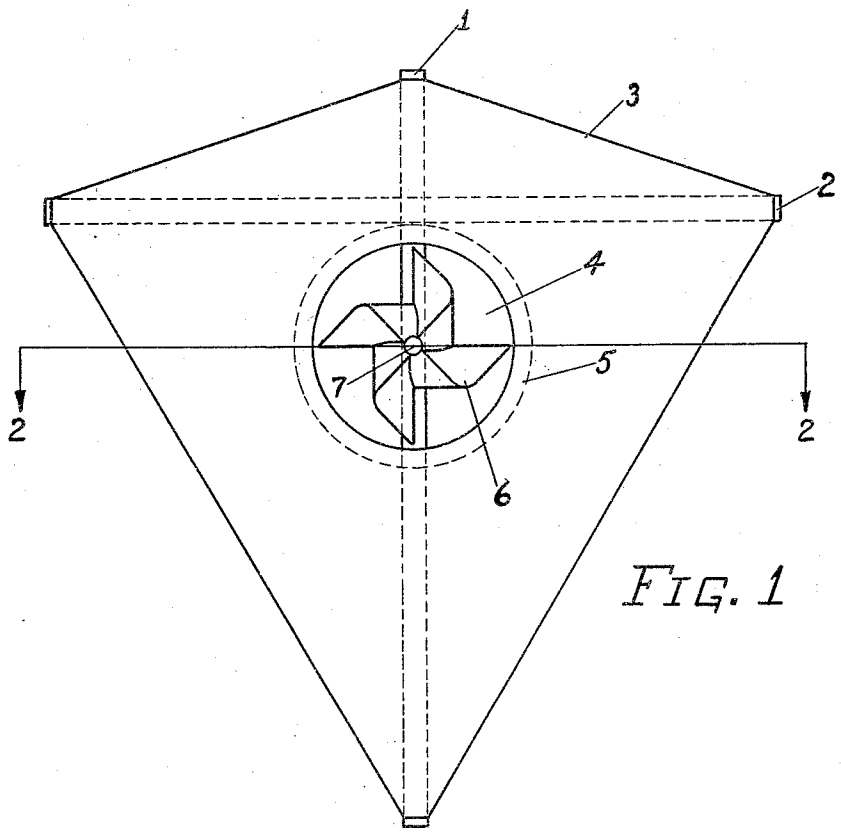


FIG. 1

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By Attorney

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UNITED STATES PATENT OFFICE

CHARLES F. BRYAN, OF NORTH PLAINFIELD, NEW JERSEY

KITE

Application filed May 6, 1931. Serial No. 535,419.

The invention relates to kites and, more particularly, to novel and simple devices for enhancing the interest and entertainment afforded by flying kites.

Objects and advantages of the invention will be set forth in part hereinafter and in part will be obvious herefrom or may be learned by practice with the invention, the same being realized and attained by means of the instrumentalities and combinations pointed out in the appended claim.

The invention consists in the novel parts, constructions, arrangements, combinations and improvements herein shown and described.

The accompanying drawing, referred to herein and constituting a part hereof, illustrates one embodiment of the invention, and together with the description, serves to explain the principles of the invention.

Of the drawing:—

Fig. 1 is a front elevation of a kite embodying my invention; and

Fig. 2 is a transverse horizontal section on line 2—2 of Fig. 1.

The invention provides a novel improvement in kite structure, whereby the flying of kites is made more interesting, attractive and instructive, at exceedingly low cost and without detracting from the simplicity of structure and ability to fly of ordinary kites. More specifically, it is the object of my invention to provide kites with movable devices which will be rotated or otherwise actuated during the flying of the kite, thereby affording an element of interest, ornament and amusement apart from the simple flying operation itself.

One of the simplest and most practicable forms of my invention is the combination of a rotatable idler, such as a pinwheel, with a bow kite or other simple and well known form of kite. However, the idler may take other forms and may be applied to other types of kites, as will be obvious to the user. Furthermore the invention is not limited to a single idler, as two or more such devices may be attached to the kite in properly balanced relation.

Referring now in detail to the present preferred embodiment of the invention, illustrated by way of example in the accompanying drawing, I provide a simple kite of the cross or bow form, having a frame composed of vertical frame member 1 and the horizontal frame member or bow 2. A paper, cloth or other wind surface 3 may be attached to the frame in any suitable or well known manner. The kite will be provided with the usual means for attaching string (not shown) and if desired or necessary may have a tail for providing flying balance.

In accordance with the invention, an aperture 4 will be provided in the covering 3 for inducing passage of air therethrough during the flying of the kite. As shown, a single aperture is shown disposed symmetrically with respect to the frame. However, if desired, two or more such apertures may be provided, it being understood that they will be located so as to preserve the flying balance of the kite. Preferably, the edges of the aperture will be provided with reinforcing means 5, such as a border of cloth or paper suitably attached to the rear of covering 3 adjacent said edge. Such reinforcement serves to prevent tearing or other damaging of the surface material during flight.

As shown, an idler, in the shape of a pinwheel 6 is mounted centrally of the aperture, being rotatably mounted on a pin 7, which is set into the frame member 1 (Fig. 2). The pinwheel may be formed of paper, light metal or any other suitable material.

The pinwheel will preferably be brightly colored in one or more colors which should preferably contrast with the color of the covering 3. If desired, all or a portion of the pinwheel may be coated with luminous paint or other phosphorescent material, thereby lending interest to flying the kite in the night time. Furthermore, if desired, the pinwheel or other idler member may be provided with holes or other devices for producing a whistling or whirring sound.

The invention in its broader aspects is not limited to the specific mechanisms shown and described but departures may be made there-

from within the scope of the accompanying claim without departing from the principles of the invention and without sacrificing its chief advantages.

What I claim is:—

A kite comprising a frame made up of cross members, a substantially continuous wind-resisting surface element mounted upon said frame members and having an opening therein, a pin mounted in one of said frame members and extending through said opening and substantially normal to said surface, and a wind-driven device mounted on said pin and adapted to be freely rotated by the wind passing through said opening.

In testimony whereof, I have signed my name to this specification.

CHARLES F. BRYAN.