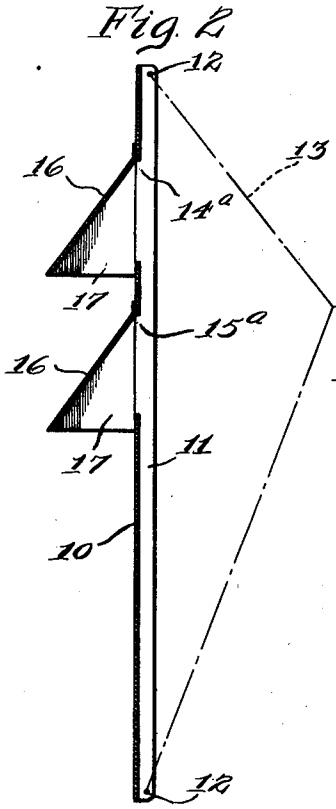
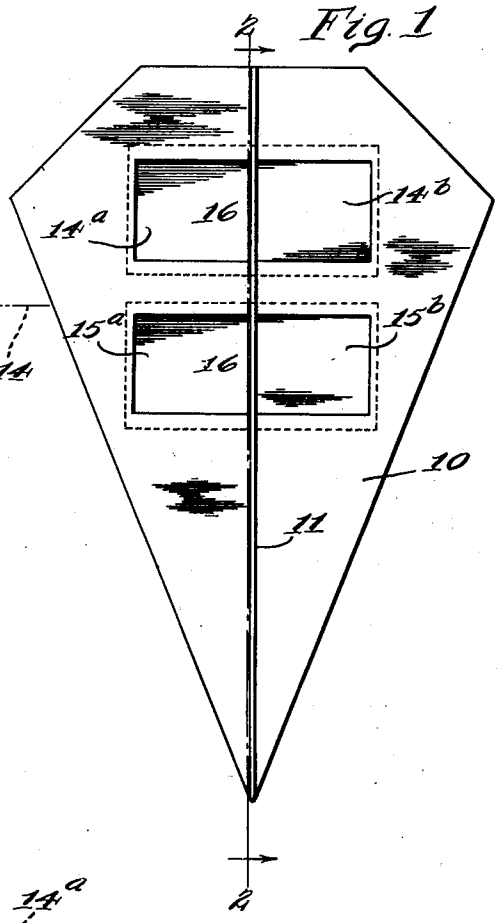
March 10, 1925. 1,529,076

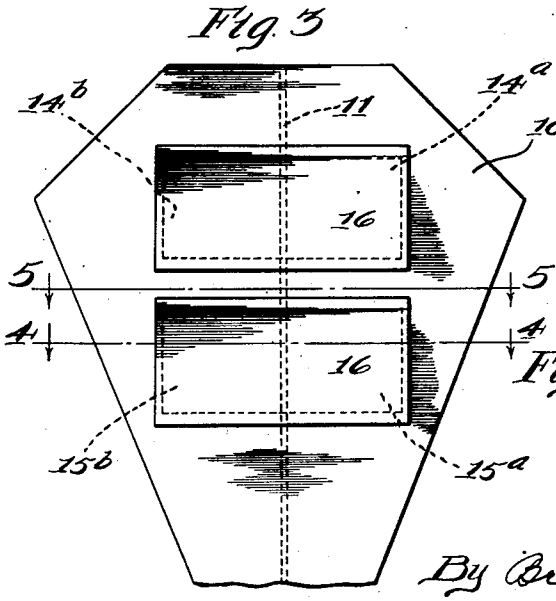
L. MARCHESSAULT

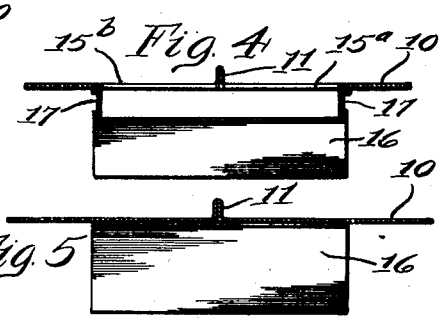
KITE

Filed Dec. 17, 1924









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By Bradbury & Caswell
Attorneys

Patented Mar. 10, 1925. 1,529,076

UNITED STATES PATENT OFFICE.

LOUIS MARCHESSAULT, OF MINNEAPOLIS, MINNESOTA.

KITE.

Application filed December 17, 1924. Serial No. 756,582.

To all whom it may concern:

Be it known that I, LOUIS MARCHESSAULT, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented a new and useful Kite, of which the following is a specification.

My invention relates to improvements in kites.

Its object is to provide an exceedingly inexpensive kite that is durable and capable of functioning effectively at the hands of those generally employing such novelties.

With the foregoing and other objects in view, which will appear in the following description, the invention resides in the novel combination and arrangement of parts and in the details of construction hereinafter described and claimed.

In the drawings, Fig. 1 is a front elevational view of a kite embodying my invention; Fig. 2 is a longitudinal sectional view taken on the line 2—2 of Fig. 1; Fig. 3 is a fragmentary elevational view of the back of the kite; Fig. 4 is a transverse sectional view taken on the line 4—4 of Fig. 3 and Fig. 5 is a similar view taken on the line 5—5 of said Fig. 3.

Referring to the drawing, it will be seen that my improved kite includes a body plane 10 corresponding in outline with that of the conventional kite, the same being elongated and tapered from top to bottom. Said body plane 10 preferably comprises a thin sheet of aluminum, although it may be formed from other suitable sheet metal or sheet material. A central longitudinal rib 11 extending forwardly of the body plane 10 is formed by folding said body plane upon itself as will be readily understood from the drawing, particularly Figs. 4 and 5. This rib is provided with apertures 12 at its upper and lower ends to receive the ends of a balancing leader 13 to which the usual kite string 14 is attached. In stamping or blanking the body plane 10, I form paired cut-outs or ports 14^a, 14^b and 15^a, 15^b transversely thereof. In folding the body plane 10, the inner ends of the paired ports are brought closely together, the same being separated only by the thickness of the rib 11. Backing each of the pairs of ports 14^a, 14^b, and 15^a, 15^b is a transverse elevating plane 16, each plane being secured at its upper edge to the body plane 10 and sloped downward and outward behind its respective paired ports. At each end of each elevating plane 16 is a stabilizing plane 17 corresponding in outline to a right triangle. Referring to one of the four similar planes 17, it will be seen that the "leg" of the plane is secured to the body plane 10; that the "hypothenuse" is secured to an end of its respective elevating plane 16 and that the "base" reaches beneath the bottom of its respective port. In this connection it will also be noted that the lower edge of each elevating plane 16, as in the case of the stabilizing planes 17 associated therewith, extends beneath the bottom of its respective port. This arrangement provides for increased lifting power in the elevating planes 16, as will be readily understood and, further, provides for an enhanced stabilizing effect in the planes 17.

From the foregoing description, it will be appreciated that the buoyancy of the kite as afforded by the body plane 10 will be substantially augmented by the action of the elevating planes 16 and that the stabilizing planes 17 will operate to steady the kite against "ducking". In addition to increasing the lifting power of the kite, the planes 16 and 17 rigidly brace the body plane 10 transversely thereof. This reinforcement coupled with the longitudinal bracing effect of the rib 11, permits of the use of very thin and light materials in the manufacture of the kite, yet provides a sturdy and durable structure.

Changes in the specific form of my invention, as herein disclosed, may be made within the scope of what is claimed without departing from the spirit of my invention.

Having described my invention, what I claim as new and desire to protect by Letters Patent is:

1. In a kite, an elongated body plane struck from sheet material and folded upon itself longitudinally thereof to supply a central, forwardly projecting reinforcing rib, said body being formed with paired cut-outs, one cut-out of each pair being located at one side of the rib and the other cut-out at the opposite side of said rib, transverse elevating planes, one backing each pair of cut-outs, said planes being secured at their upper edges to the body, and stabilizing planes extending longitudinally of the body and interposed between the same and the ends of the elevating planes, said stabilizing

planes serving to reinforce the elevating planes and, also, to aid said elevating planes in reinforcing the body transversely thereof.

2. In a kite, an elongated body plane folded upon itself longitudinally thereof to supply a central reinforcing rib, said body being formed with transversely opposed cut-outs, one at one side of said rib and one at the other side thereof, and a transverse elevating plane backing said opposed cut-outs, said plane being secured to the body and serving to reinforce the same.

3. In a kite, an elongated body plane struck from sheet material, a transverse elevating plane secured at its upper edge to the back of the body plane and inclined outwardly and downwardly therefrom and stabilizing planes interposed between the body plane and the ends of said elevating plane, said body plane being cut away to form a port in front of the elevating plane and between said stabilizing planes, the lower portions of said planes reaching beneath the bottom of said port.

4. In a kite, an elongated body plane, a transverse elevating plane secured at its upper edge to the back of the body plane and stabilizing planes interposed between the body plane and the ends of said elevating plane, said body plane being cut away in front of the elevating plane and between said stabilizing planes.

5. In a kite, a body plane and an elevating plane secured to the body at the back and transversely thereof, said body plane being cut away in front of said elevating plane and reinforced transversely by the elevating plane.

6. In a kite, a body plane having transversely paired ports therein, a bracing member for the body plane extending longitudinally thereof between said ports, and an elevating plane backing said ports and serving to reinforce the body plane transversely thereof.

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

LOUIS MARCHESSAULT.