June 21, 1927. 1,633,510

G. W. AYLING

KITE

Filed Oct. 30, 1925

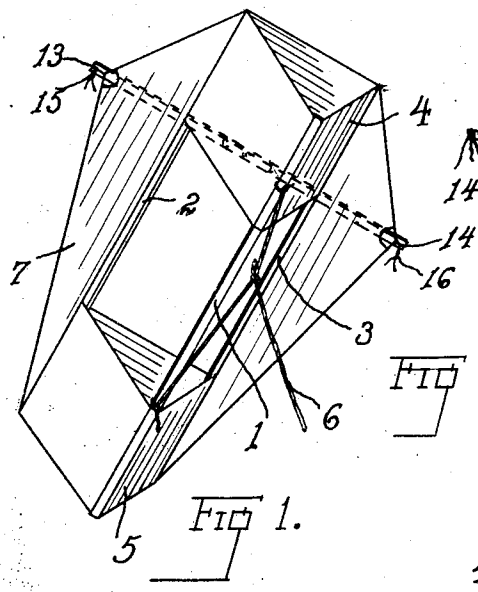


FIG. 1.

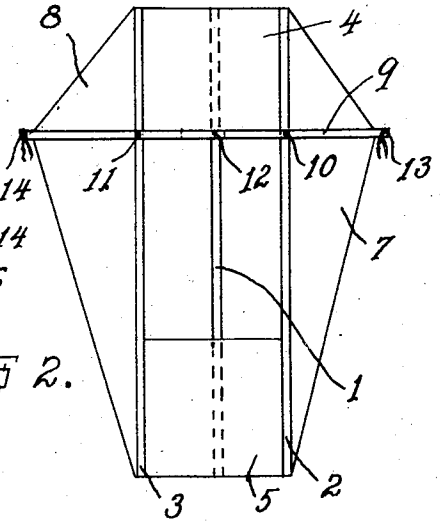


FIG. 2.

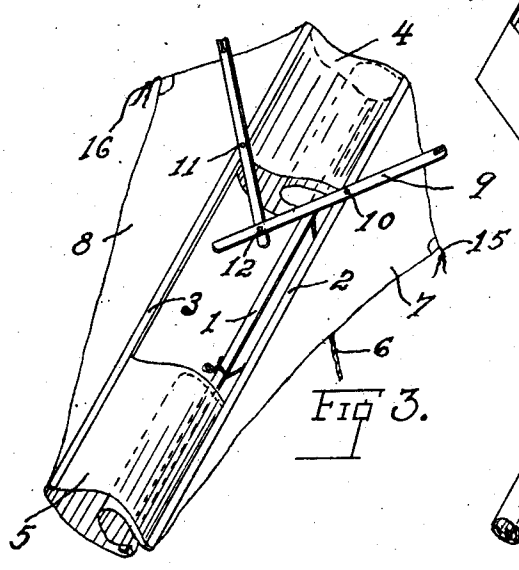


FIG. 3.

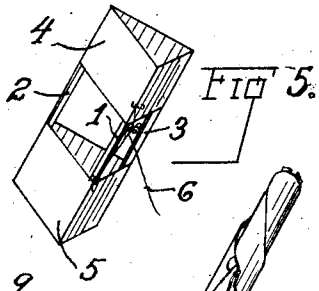


FIG. 5.

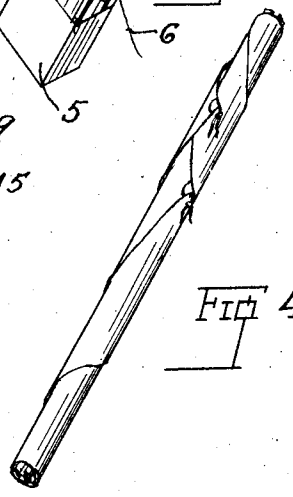


FIG. 4.

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UNITED STATES PATENT OFFICE.

GEORGE W. AYLING, OF SPRINGFIELD, ILLINOIS.

KITE.

Application filed October 30, 1925. Serial No. 65,756.

This invention relates to folding kites of the box type that may be folded into a small compact arrangement when not in use and quickly assembled into operative position when it is desired to use the same. An object being also in this device to make a folding box kite that will be economical to manufacture and convenient to handle.

Another object of this invention is the production of a folding triangular box kite having wings mounted on adjacent frame members of the kite adapted to normally extend outward therefrom and be detachably held in extended position by the opposite ends of a pivotally foldable brace member when in operation.

A further object of my invention is to provide a folding triangular box kite having frame members normally disposed in parallel triangular spaced relation, two adjacent members of which are adapted to be held into predetermined spaced relation when in operation by a pivotally foldable brace member made in two parts, pivotally attached to each other near their adjacent ends so as to permit their adjacent ends to over-lap; said parts of said brace member each pivotally secured to corresponding adjacent frame members whereby the kite may be quickly folded after the same has been in use or quickly assembled in preparation for use.

With these and other objects in view this invention concerns certain improvements in construction in detail of design as will be hereinafter explained in the accompanying drawings.

In the drawings Figure 1 is a perspective of the kite of my invention shown in assembled form.

Figure 2 is a rear elevation of the kite of my invention showing how the brace member holds frame members in predetermined spaced relation and how the ends of the brace member hold the ends of the wing members within slots.

Figure 3 is a perspective showing how said brace member pivotally folds when collapsing the kite after it has been used.

Figure 4 shows the kite after it has been folded and rolled up into a condition convenient for handling.

Figure 5 is the kite without the wing members.

Referring in detail to the numerals and to the details of structure designated thereby, frame members —1—2— and —3— are adapted to be encompassed and normally held into triangular prismic spaced relation when in operation by main plane members —4— and —5— adapted to be made of paper or cloth so that when a cord —6— is secured to the frame member —1— as is shown in Figure 1 said body members form wings for sustaining the kite in the air more easily.

To frame members —2— and —3— throughout their lengths are secured a pair of wings —7— and —8— respectively and on the back of said wing and secured to said frame members in pivoted relation at points —10— and —11— respectively. This brace member is made in two pieces and pivotally put together so as to make the adjacent ends over-lap and pivot at point —12—.

It will be seen that with this over-lapping arrangement of the brace member that the frame members secured thereto will be held into substantial spaced relation during the flying operation and it will likewise be seen that when it is desired to fold the kite that brace member —9— may be quickly and conveniently folded so as to bring all frame members and body members closer together to be rolled up into a convenient package. Ends —13— and —14— respectively of said brace member are slotted so as to engage loops —15— and —16— of the wings —7— and —8— respectively.

When assembling the kite one may unroll the package, straighten out the brace member so as to make the adjacent ends overlap, in which position they will be in alignment at right angles to the frame members to which they will be pivotally attached and the loops of the wings will then be inserted within the slots in the corresponding ends of the brace member after which the person flying the kite may take hold of cord —6— only a few feet from the kite and start off in the direction against the wind and this kite will quickly take the air and fly successfully.

It will be seen that there is a distinct advantage in having the brace member used in combination with the wings and body members to save time and provide convenience in handling the kite.

To those skilled in the art it will be seen that this provides a very practical kite in

every way and it will also be seen that certain minor changes might be made in its structure without departing from the spirit and scope of the invention, but the preferred embodiment is illustrated in the drawings and is hereinabove described.

Having thus described the nature of my invention what I claim is:

1. A kite comprising three upright frame members spaced in triangular formation and a right angularly disposed frame member pivotally jointed mid-way between its ends and pivotally secured to each of the two adjacent upright frame members above their centers; a pair of main plane members secured to and encompassing said frame members near their respective ends thereof and a pair of wing members detachably secured to corresponding ends of said brace member by means of a loop on the wing members held within a slot in the ends of said brace member; said wing members secured to said adjacent frame members throughout their length whereby the kite may be quickly assembled for use or quickly dismounted, folded and ready to be carried conveniently.

2. In a kite of the character described having an assembled form of a triangular prism supported by frame members with two oppositely disposed wing members disposed in the same plane with, and projecting beyond the edges of one of the faces of said triangular prism, a brace member made in two pieces pivotally connected so as to allow the adjacent ends to over-lap and each of said pieces pivotally attached to the adjacent frame members in the same plane with said wing members; said brace member projecting at each end beyond said frame members and each part provided with a slot in the end thereof for detachably securing said wing members into operative position whereby said kite may be quickly assembled or quickly dismounted when in use, folded neatly and compactly for convenience in handling.

In witness whereof I hereunto set my hand and seal this 13th day of October, A. D. 1925.

GEO. W. AYLING.