

July 23, 1940.

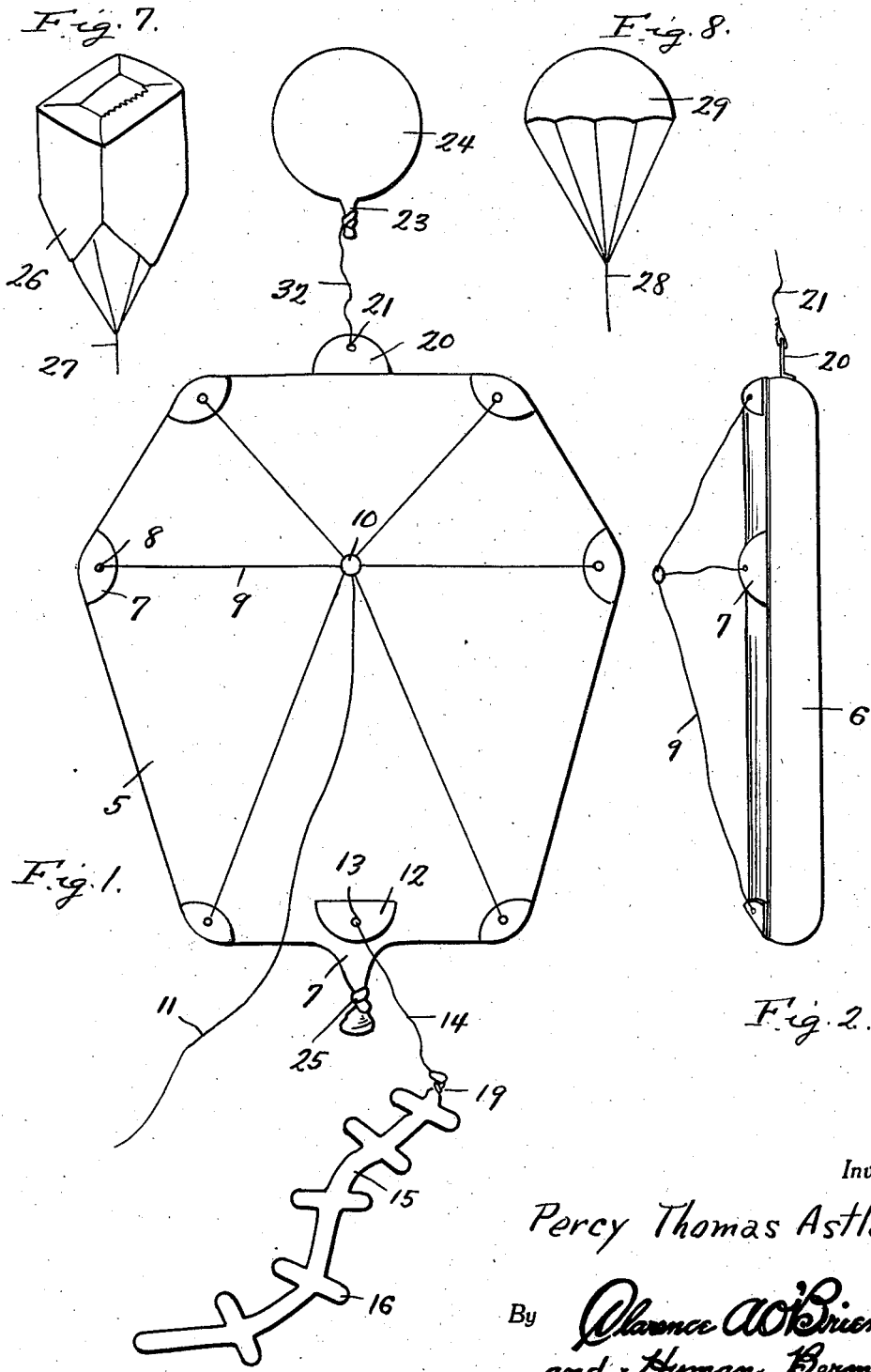
P. T. ASTLE

2,208,786

KITE

Filed Dec. 3, 1938

2 Sheets-Sheet 1



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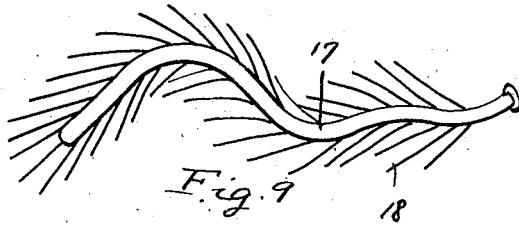
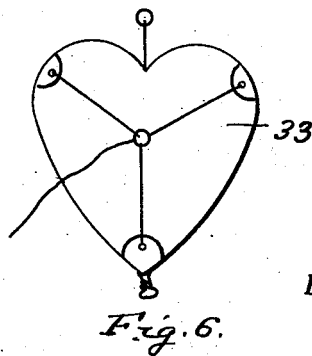
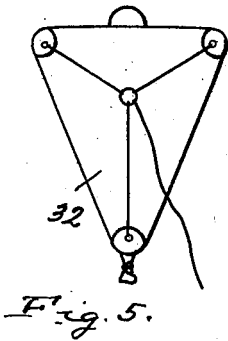
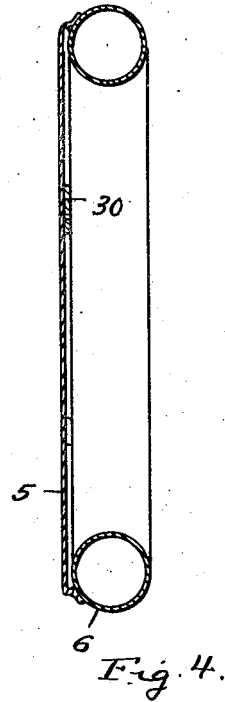
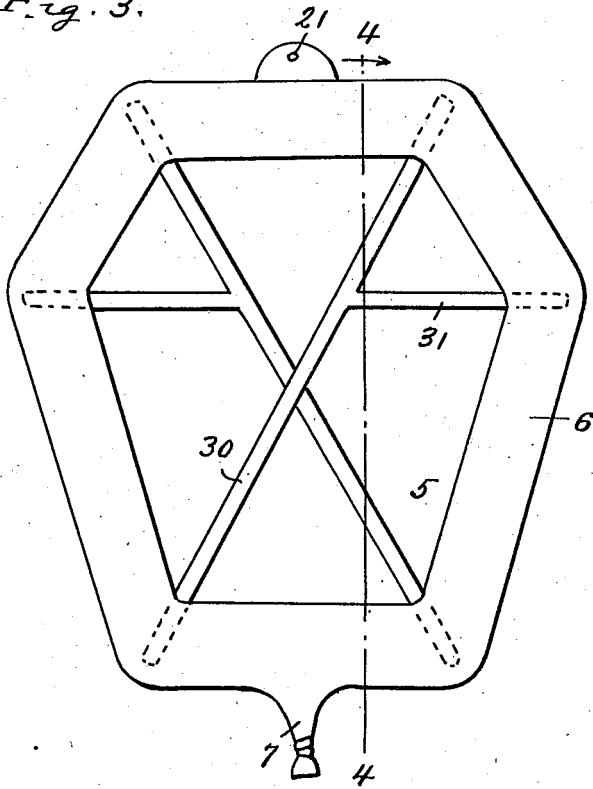


Fig. 3.



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# UNITED STATES PATENT OFFICE

2,208,786

KITE

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Application December 3, 1938, Serial No. 243,841

5 Claims. (Cl. 244—153)

The present invention relates to kites and has for its primary object to provide a body member forming the kite and having an inflatable tube extending circumferentially about its marginal edge and within which air under pressure may be placed to aid in the lifting of the kite while flying the same.

A further object of the invention is to provide an inflatable tail for the kite.

Another object is to provide means attachable to the upper edge of the kite to assist in lifting the same while the kite is being flown.

A still further object is to provide novel means for securing brace members to the marginal edges of the kite.

Other objects and advantages reside in the details of construction as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which

Figure 1 is a front elevational view.

Figure 2 is a side elevational view.

Figure 3 is a rear elevational view.

Figure 4 is a vertical sectional view taken substantially on a line 4—4 of Figure 3.

Figures 5 and 6 are front elevational views of modified forms of the invention, and

Figures 7 and 8 are perspective views of parachutes adapted for attaching to the upper edge of the kite.

Figure 9 is a modified form of the kite tail.

Referring now to the drawings in detail, the numeral 5 designates a sheet of rubber of predetermined configuration to form the front or body of the kite and to the rear surface of which, at its marginal edges, is secured an inflatable tube 6 having an inflating neck 7 at its lower portion, the tube being secured to the body by vulcanizing or the like.

Also vulcanized to the front surface of the body 5 are a plurality of flaps 7 having openings 8 therein for attaching strings 9 leading to a centrally disposed ring 10 from which the ground cord 11 extends.

A flap 12 is also secured to the body 5 adjacent its lower edge and is also provided with an opening 13 for attaching a tail string 14 to which an inflatable tail 15 is secured. The tail member 15 may be of any desired elongated form, as illustrated in Figure 1 of the drawings, including lateral inflatable extensions 16, or may be in the form as illustrated in Figure 9 which includes the elongated body 17 from which, at spaced intervals project a plurality of tentacles 18. Each of

the tail members has an inflating neck 19 and are likewise formed of rubber for containing air under pressure.

To the upper edge of the body 5 is also secured a flap 20 having an opening 21 for attaching a cord 22, said cord being connected to the neck portion 23 of a balloon 24.

Each of the neck portions of the main kite tube 6, as well as of the tails 15 and 17 and of the balloon 24 are adapted to be closed by forming a knot 25 therein.

In lieu of the balloon 24 a parachute of the form shown in Figure 7, and designated by the numeral 26 may be secured to the tab 20 by a cord 27, or a parachute of the form as illustrated in Figure 8 may likewise be secured to the tab by means of a cord 28, the parachute body being indicated at 29.

A pair of brace members are provided for the kite comprising rigid rods 30 having their end portions inserted between the tube 6 and the body of the kite, at diametrically opposite sides, and arranged in crossed relation as shown in Figure 3.

Laterally extending arms 31 also project from the brace members 30 and are likewise inserted between the tubular members 6 and the body of the kite at one side of the kite.

The kite may be constructed of the usual form as illustrated in Figures 1 and 3, or may have a configuration as shown at 32 in Figure 5 or at 33 as shown in Figure 6.

It is believed the details of construction of the invention will be readily understood from the foregoing without further detailed explanation.

Having thus described the invention, what I claim is—

1. A kite comprising a body formed of a single sheet of material, an inflatable tube carried at the marginal edges of the sheet and constituting a brace member for the sheet to maintain the same in its flat form and cord attaching tabs at the edges of the sheet.

2. A kite comprising a single rubber sheet of material of predetermined configuration, an inflatable tube secured to and extending entirely around the marginal edges of the sheet, tabs secured to the edges of the sheet to maintain the sheet in its flat form and flying cords secured to said tabs.

3. A kite comprising a rubber sheet of predetermined configuration, an inflatable tube secured to the marginal edges of the sheet and rigid brace members having their ends inserted

between the sheet and the tube at diametrically opposite portions thereof.

4. A kite comprising a rubber sheet, an inflatable tube secured to the marginal edges of the sheet at one side thereof, rigid brace members between the tube and the sheet, cord attaching tabs secured to the sheet, an inflatable tail secured to one of said tabs and a supporting member secured to another of the tabs at the upper edge of the kite.

5. A kite comprising a rubber sheet, an inflatable tube secured to the marginal edges of the sheet at one side thereof, rigid brace members between the tube and the sheet, cord attaching tabs secured to the sheet, an inflatable tail secured to one of said tabs and a parachute secured to another of the tabs at the upper edge of the kite.

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