

No. 621,593.

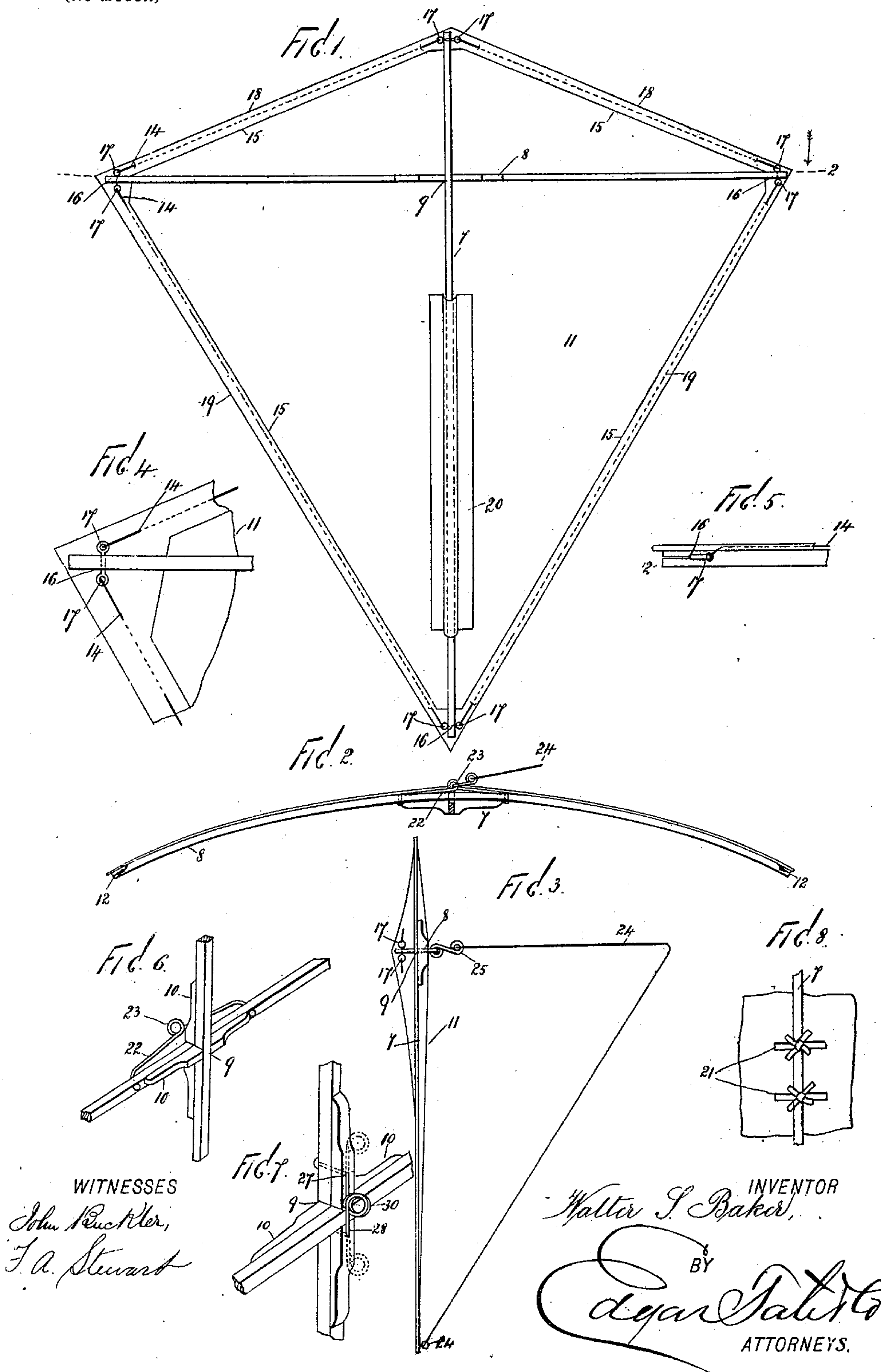
Patented Mar. 21, 1899.

W. S. BAKER.

KITE.

(Application filed Aug. 18, 1898.)

(No Model.)



UNITED STATES PATENT OFFICE.

WALTER SAMUEL BAKER, OF NEWARK, NEW JERSEY.

KITE.

SPECIFICATION forming part of Letters Patent No. 621,593, dated March 21, 1899.

Application filed August 18, 1898. Serial No. 688,844. (No model.)

To all whom it may concern:

Be it known that I, WALTER SAMUEL BAKER, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Kites, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to kites; and the object thereof is to provide a kite of improved construction in which all the parts thereof are detachably connected, whereby the kite may be put together or the separate parts thereof detached, so as to fold the same into compact form, whenever desired; and, with these and other objects in view the invention consists in the construction, combination, and arrangement of parts hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which—

Figure 1 is a back view of a kite constructed according to my invention; Fig. 2, a cross-section taken directly over the cross-stick of the frame or on the line 2 2 of Fig. 1; Fig. 3, a central vertical section taken adjacent to the longitudinal stick of the frame; Fig. 4, a view, similar to Fig. 1, of a part of a kite on an enlarged scale; Fig. 5, a plan view of that part of the construction shown in Fig. 4; Fig. 6, a perspective front view showing the method of connecting the central longitudinal and the cross sticks; Fig. 7, a perspective back view of the construction shown in Fig. 6 and showing a modification; and Fig. 8, a view, similar to Fig. 1, of a portion of the kite, showing a modified form of construction.

The separate parts of my improvement are designated by the same numerals of reference in each of the views, and in the practice of my invention I provide a frame which consists of the usual central longitudinal stick 7 and the cross-stick 8, and these sticks 7 and 8 are connected at 9, as shown in Figs. 6 and 7, each being provided with reinforcing cleats or strips 10, whereby an interlocking joint is formed, and when said sticks are connected in this manner they may be tied together, if desired, by an ordinary cord or secured in any

desired manner. I have also shown at 11 the body portion or covering of the kite, which is composed of silk or any other suitable textile fabric, and in connecting the body portion or back covering with the frame of the kite I form in the ends of the sticks 7 and 8 slots 12, (best shown in Fig. 5,) and in practice I connect with each side of the back or covering of the kite cords 14, which are secured in position by means of hems 15, through which said cords are passed, and these cords are connected at their ends with short wires or rods 16, at the ends of which are formed eyes 17, with which said cords are connected, as clearly shown in Fig. 4.

The lengths of the shorter sides 18 of the back or covering are exactly the same, as are also the lengths of the longer sides 19, and in order to connect the back or covering with the frame of the kite the material of the back or covering is stretched so as to permit the short wires or cords 16 to be inserted into the slots 12, as shown in Figs. 4 and 5, and in order to connect the back covering or body portion of the kite with the central portion of the frame I secure to said back or body portion, longitudinally of the center thereof, a longitudinal pocket 20, through which the central longitudinal stick 7 of the frame is passed; but instead of employing the pocket 20 I may connect with the back or covering of the kite tapes or cords, as shown at 21 in Fig. 8, which may be tied to the stick 7, as will be readily understood.

The short wires or rods 16, provided with the eyes 17, will hold the back covering or body portion of the kite in secure connection with the frame, and connected with the back of the cross-stick 8 and centrally thereof is a wire 22, which is provided centrally thereof with a backwardly-directed loop or ring 23, and this loop or ring is passed through the back or body portion 11 and serves as means for attaching one end of the bridle 24, which is shown in Fig. 4, and said end of the bridle is provided with a snap-hook or similar device 25 to engage with the ring or eye 23, and the lower end of the bridle 24 is detachably connected with the lower end of the stick 7 in the same or any preferred manner.

The sticks 7 and 8 are preferably composed of spruce-pine or similar material which is

not easily split and which also possesses slight elasticity, and in connecting the body or back covering 11 of the kite with the frame the sticks 7 and 8 may be bent to facilitate the
 5 insertion of the wires or rods 16 into the loops 12. As thus constructed it will be seen that the back or covering 11 may be detached from the frame whenever desired, and the separate sticks 7 and 8 of the frame may be detached
 10 at 9, and it will thus be seen that the entire kite may be taken to pieces and folded into a compact form and the separate parts thereof may be quickly and easily connected whenever necessary. It will also be observed that
 15 the cross-stick 8 is curved or convex in form on the front side thereof, the ends of said stick being gradually curved backwardly, and by reason of this construction the body of the kite or the front thereof is given a gradual
 20 convex form in cross-section, which materially aids the flying thereof and which serves to retain the kite in proper position at all times.

In Fig. 7 I have shown a reverse view of the construction in Fig. 6, and said view is
 25 intended to illustrate a modification of the means for attaching the bridle 24 to the kite, said means consisting of two separate wires 27 and 28, which are passed through the central longitudinal stick 7 and through the re-
 30 inforcing cleats or strips connected therewith and are bent at right angles to form arms which are each provided with a ring or eye 30. The rings or eyes 30 may be turned out-
 35 wardly, as shown in dotted lines in Fig. 7, or inwardly over the cross-stick 8, as shown in full lines in said figure, in which position they are side by side and serve to hold the longitudinal stick 7 and the cross-stick 8 to-
 40 gether, and in this position said rings or eyes 30 take the position of the ring or eye 23, as shown in Fig. 6, and serve as means for attaching the bridle 24, said rings or eyes being passed through the body portion or back 11 of the kite.

45 It will thus be seen that I accomplish the object of my invention by means of a simple and effective construction and one which is well adapted to produce the result for which it is intended, and it will be apparent that
 50 changes in and modifications of the construction herein described may be made without departing from the spirit of my invention or sacrificing its advantages.

Having fully described my invention, I claim as new and desire to secure by Letters 55 Patent—

1. A kite, comprising a frame composed of the usual central longitudinal and cross sticks, said sticks being detachably connected, and said sticks being also provided at their 60 ends with short slots, and a body portion or covering for said frame, the sides of which are provided with cords, said cords being connected at their ends with short wires or rods which are adapted to be inserted into said 65 slots, substantially as shown and described.

2. A kite, comprising a frame composed of the usual central longitudinal and cross sticks, said sticks being detachably connected, and said sticks being also provided at their 70 ends with short slots, and a body portion or covering for said frame, the sides of which are provided with cords, said cords being connected at their ends with short wires or rods which are adapted to be inserted into said 75 slots, said body portion or covering being also provided with a longitudinal pocket through which the longitudinal stick of the frame is passed, substantially as shown and described.

3. A kite, comprising a frame composed of 80 the usual central longitudinal and cross sticks, said sticks being detachably connected, and said sticks being also provided at their ends with short slots, and a body portion or covering for said frame, the sides of which 85 are provided with cords, said cords being connected at their ends with short wires or rods which are adapted to be inserted into said slots, and the body portion or covering being also provided with means for connecting it 90 with the longitudinal stick of the frame, said sticks being also provided at the point where they are connected with rings or eyes which are pivotally secured to one of said sticks on the opposite side of said connection, and 95 adapted to swing into alinement across the other stick, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in pres- 100
 100 ence of the subscribing witnesses, this 15th day of August, 1898.

WALTER SAMUEL BAKER.

Witnesses:

F. A. STEWART,
 V. M. VOSLER.