No. 608,823. Patented Aug. 9, 1898.

W. S. BAKER.

KITE.

(Application filed Oct. 12, 1897.)

(No Model.)

Fig. 1

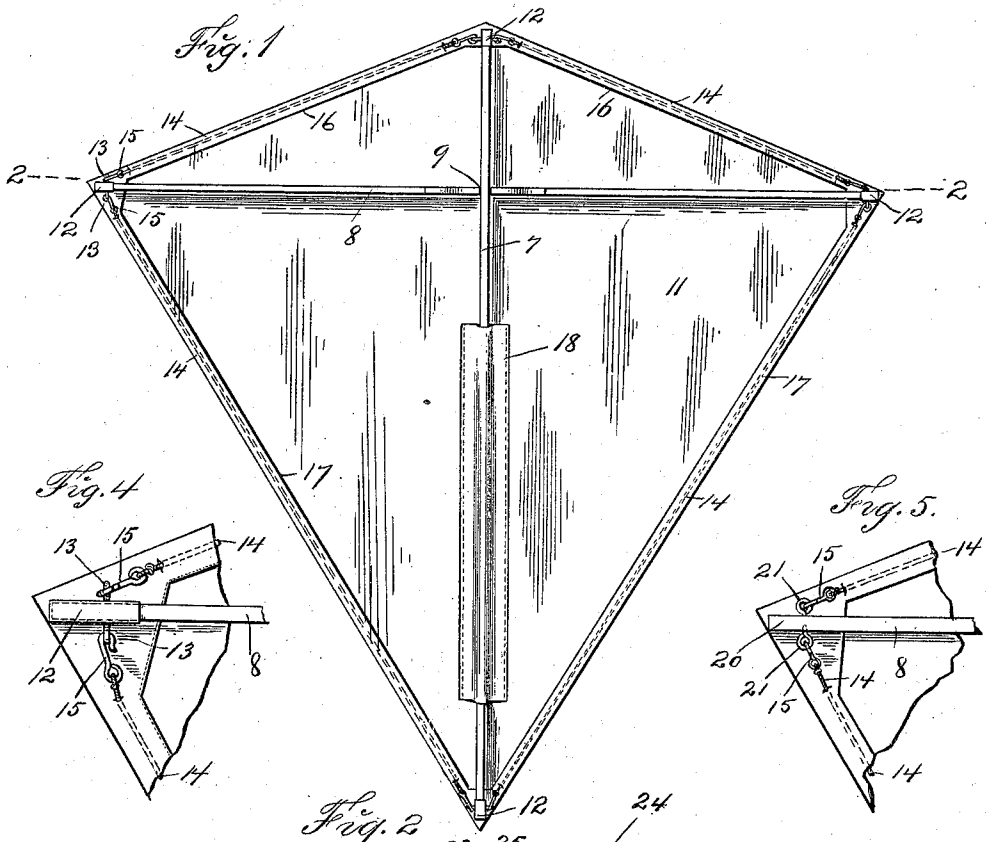


Fig. 4

Fig. 5.

Fig. 2

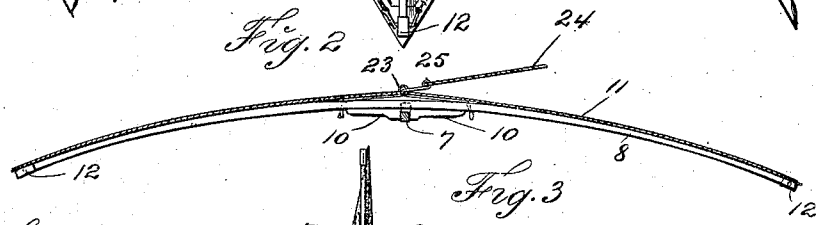


Fig. 3

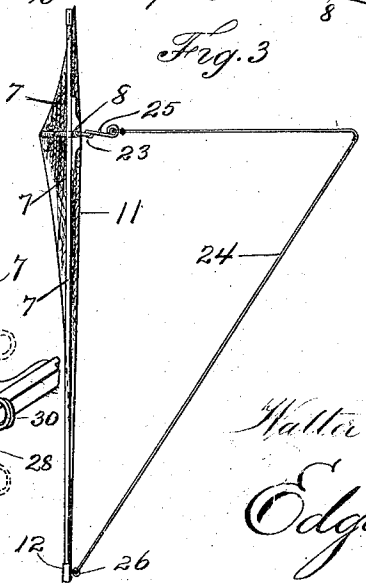


Fig. 6.

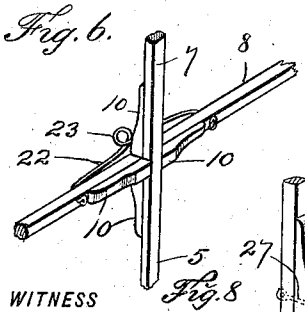
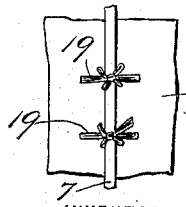


Fig. 8

Fig. 7



WITNESS

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KITE.

SPECIFICATION forming part of Letters Patent No. 608,823, dated August 9, 1898.

Application filed October 12, 1897. Serial No. 654,956. (No model.)

To all whom it may concern:

Be it known that I, WALTER S. 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 fold the same into a compact form whenever desired.

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 made according to my invention; Fig. 2, a cross-section taken directly over the cross-stick or on the line 2 2 of Fig. 1; Fig. 3, a central vertical section taken adjacent to the longitudinal stick; Fig. 4, a view similar to Fig. 1 of a part of the kite on an enlarged scale; Fig. 5, a similar view showing a modified form of construction; Fig. 6, a perspective view showing the method of connecting the central longitudinal stick and the cross-stick; Fig. 7, a partial view of Fig. 1, showing a modification; and Fig. 8, a reverse view of the construction shown in Fig. 6, showing a modification.

In the drawings forming part of this specification 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 Fig. 6, 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, and said body portion or covering may be composed of silk or of any suitable textile fabric, and in connecting the back or body portion of the kite with the frame I preferably provide tips or sockets 12, which are best shown in Figs. 1 and 4, and which are adapted to be slipped over the ends of the longitudinal stick 7 and the cross-stick 8, and these sockets are preferably provided at their opposite sides with eyes or rings 13, and in practice I connect with each side of the back or covering of the kite cords 14, which are provided at their ends with snap-hooks or similar devices 15, which in practice are connected with the eyes or rings 13.

The cords 14 are sewed into the sides or edges of the back or covering 11, and in practice said back or covering along its different sides is preferably provided with a hem, through which said cords are passed.

The length of the shorter sides of the back or covering at 16 is exactly the same, as is also the length of the longer sides 17, and in order to connect the body portion or covering of the kite centrally thereof with the frame I secure to said back or covering, at the longitudinal center thereof, a longitudinal pocket 18, through which the central longitudinal stick 7 of the frame is passed; but instead of employing said longitudinal pocket 18 I may connect with the back or covering of the kite tapes or cords, as shown at 19 in Fig. 7, which may be tied to the stick 7, as will be readily understood.

Instead of employing sockets or tips 12 I may employ the construction shown in Fig. 5, in which a wire or similar device 20 is passed through the ends of the sticks 7 and 8 and provided at the opposite sides of said sticks with the rings or eyes 21, and the snap-hooks 15 will be connected with said rings or eyes, as shown in Fig. 1 and as hereinbefore described.

Connected with the back of the cross-stick 8 and centrally thereof is a wire 22, which is provided centrally with a backwardly-directed loop or ring 23, and this loop or ring is passed through the back or covering 11 and serves as means for attaching one end of the bridle 24, which is shown in Fig. 3, and said end of the bridle is provided with a snap-hook 25, similar to the snap-hooks 15, and the other end of the bridle 24 is detachably connected with the lower end of the stick 7 at 26 in the same or any preferred manner.

The sockets or tips 12 may be connected

with the ends of the sticks 7 and 8 by a bayonet-joint or in any desired manner; but in practice it is preferable to make the back or covering 11 of such dimensions that the frame may be bent so that the snap-hooks 15 may be connected with said sockets or tips, in which event the latter will be held in position by the tension of the back or covering or by the tension of the cords 14; but said sockets or tips may be secured in place by any desired means, and it will be apparent that other means may be employed for detachably connecting the cords 14 with the ends of the sticks 7 and 8. 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 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, as shown and described, whenever necessary. It will also be observed that 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 convex form in cross-section, which materially aids the flying thereof and which serves to retain the kite in proper position at all times.

Fig. 8 is a reverse view of the construction shown in Fig. 6 and is intended to illustrate a modification of the means for attaching the bridle 24, and which is also adapted to hold the longitudinal strip 7 and cross-strip 8 together. These means consist of two separate wires 27 and 28, which are passed through the central longitudinal stick 7 and through the reinforcing cleats or strips 10 and are bent at right angles, as shown at 29, and each formed into a ring or eye 30.

The rings 30 may be turned outwardly, as shown in dotted lines in Fig. 8, 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 and cross-stick 8 together, and in this position said rings or eyes 30 take the position of the ring or eye 23 shown in Fig. 6, and the snap-hook 25 of the bridle 24 is connected therewith, said rings or eyes 30 being passed through the back or cover 11 of the kite.

In practice I prefer the construction shown in Fig. 8 to that shown in Fig. 6, and my improved kite is simple in construction and operation, and it will be apparent that changes in and modifications of the construction herein described may be made without departing from the spirit of my invention or sacrificing its advantages, and I reserve the right to make all such alterations therein and modifications thereof as fairly come within the scope of my invention.

By reason of the improved construction and arrangement as comprised in my invention, in which the sockets or tips are detachably connected with the sticks and carry the eyes or rings and the body portion or covering carries the cord provided with the end hooks, which are adapted to be connected with the eyes or rings upon the detachable sockets or tips, convenience and facility in connecting and disconnecting the parts of the kite are insured and a strong connection is provided which is not liable to bending or breakage. A more simple and convenient construction is also produced by having the connecting devices carried upon the detachable sockets or tips. The provision of the longitudinal pocket upon the body portion or covering for the reception of the central longitudinal stick provides a convenient and secure connection between the covering and main stick and by means of which the covering is retained and braced in connection with a considerable portion of the central longitudinal stick below the cross-stick.

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

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 ends with detachable sockets or tips which are provided on their opposite sides with eyes or rings, and a body portion or covering for said frame, the sides of which are provided with cords, said cords being provided at their ends with hooks which are adapted to be connected with said rings or eyes, and the body portion or covering being also provided with a longitudinal pocket through which the central longitudinal stick is passed, 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 sides of said connection and adapted to swing into alinement over the other stick, substantially as described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 9th day of October, 1897.

WALTER S. BAKER.

Witnesses:
L. M. MULLER,
M. A. KNOWLES.