(No Model.)

C. S. WARDWELL.

KITE.

No. 598,038. Patented Jan. 25, 1898.

Fig 1

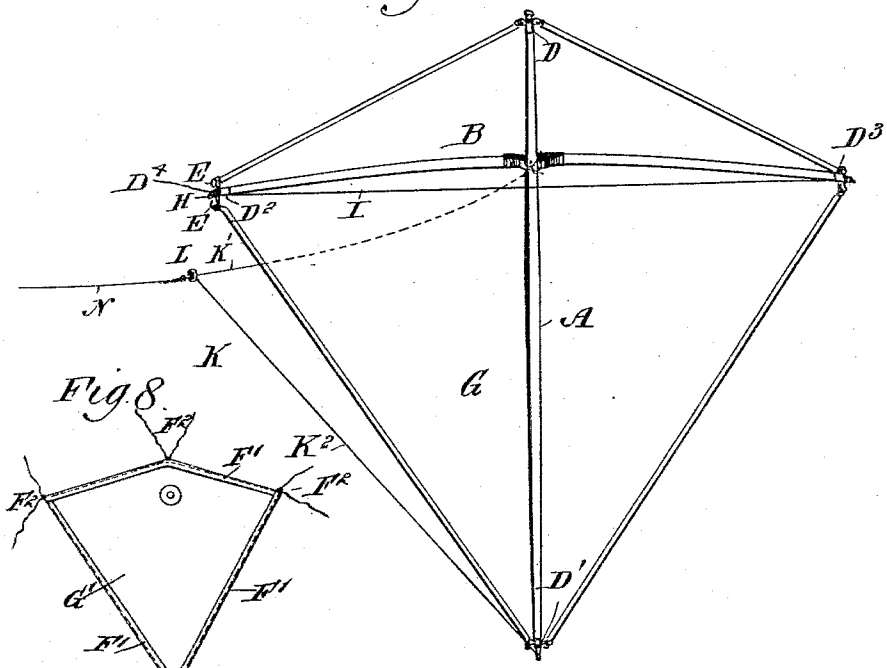


Fig 2.

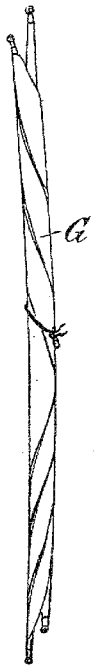


Fig 8.

Fig 3

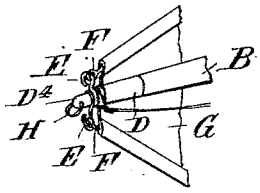


Fig 5.

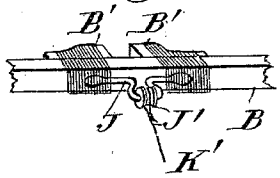


Fig 4

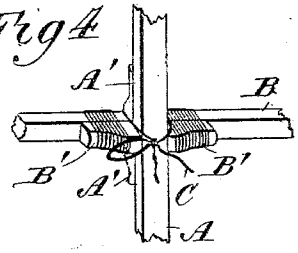


Fig 6.

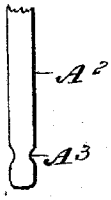
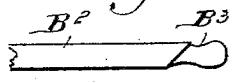


Fig 7.



WITNESSES.

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UNITED STATES PATENT OFFICE.

CLAISON S. WARDWELL, OF STAMFORD, CONNECTICUT.

KITE.

SPECIFICATION forming part of Letters Patent No. 598,033, dated January 25, 1898.

Application filed March 30, 1897. Serial No. 629,916. (No model.)

To all whom it may concern:

Be it known that I, CLAISON S. WARDWELL, of Stamford, in the county of Fairfield and State of Connecticut, have invented a new and Improved Kite, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved kite which is simple and durable in construction, cheap to manufacture, and arranged for convenient folding.

The invention consists of certain parts and details and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a rear perspective view of the improvement ready for use. Fig. 2 is a perspective view of the improvement as folded. Fig. 3 is a rear perspective view of one end of the cross-stick and adjacent parts. Fig. 4 is a rear perspective view of the joint between the two sections. Fig. 5 is a front perspective view of the cross-stick at the middle. Figs. 6 and 7 are side elevations of modified forms of the ends of the sticks, and Fig. 8 is a face view of the cover to be used with sticks shown in Figs. 6 and 7.

The improved kite is provided with a longitudinal stick A and a bow or cross stick B, both made of wood or other suitable material and formed at their intersection with pairs of blocks or cleats A′ and B′, respectively, of which the blocks in each pair are placed a suitable distance apart to receive the other stick. The blocks are preferably glued to the sticks and then wrapped with a suitable thread, which passes around the stick to securely hold the blocks in place. When the two sticks are placed in position, one on the other, they are prevented from moving by the said blocks, and, in addition, the sticks are secured together by a suitable string or cord C, preferably tied by hand, and when united permits of detaching the sticks one from the other by moving the same laterally in opposite directions, so that the kite can be folded, as hereinafter more fully described.

On the ends of the stick A are secured the two ferrules D and D′, and similar ferrules D^2 and D^3 are secured on the ends of the cross-stick B. A pin D^4 projects from the end of each ferrule D, D′, D^2, and D^3, and on the several pins D^4 are held loops E, connected with eyes formed on the bounding cords or wires F, extending from one ferrule to the other, as plainly shown in the drawings. The said wires or cords carry the cover G, made of paper, fabric, or other suitable material, with the sides lapped around the wires and sewed or glued, so as to form hems or welts, through which pass the cords or wires. After the loops E are in place a suitable split ring H is passed through an opening in each pin D^4, so as to prevent the said loops from becoming accidentally detached from the pins D^4.

In order to give the necessary bend to the cross-stick B, I connect the two pins D^4 on the ferrules D^2 and D^3 with each other by a wire I, drawn sufficiently tight to give the desired curvature to the cross-stick B, as indicated in Fig. 1.

On the front of the cross-stick B is secured a keeper J, bent at its middle to form a bearing for an eye J′, on which is fastened the upper string or cord K′ of the bridle K, having its lower string or cord K^2 connected with the pin D^4 of the ferrule D′. The two strings or cords K′ and K^2 are connected at their free ends with a ring L, to which the end of the line N is attached. The keeper J extends through an opening in the cover G, and this opening is preferably reinforced by a suitable material in the shape of a disk with a central opening for the passage of the keeper J. As shown in Fig. 5, the ends of the keeper are fastened in place by the threads used for wrapping the blocks B in place, as previously explained.

Now it will be seen that by the arrangement described the kite is very simply constructed, is very durable, and as the sticks are not weakened in any way, especially at the joint, they are not liable to break under a heavy strain.

It will further be seen that by untying the string or cord C the sticks A and B can be readily disengaged to permit of folding the cover G on the sticks, as illustrated in Fig. 2, for conveniently transporting the kite from place to place or storing it in a small space.

The ferrules on the ends of the sticks A and

B may be entirely dispensed with, and in this case the sticks A^2 and B^2 are formed at their ends with annular recesses or notches A^3 and B^3, respectively, in which are wrapped and tied the projecting ends F^2 of the bounding-cords F′ of the cover G′. (Shown in Fig. 8.)

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

1. A kite comprising sticks, ferrules at the ends of the sticks, a pair of loops on each ferrule, a ring or stop on each ferrule exteriorly of the loops, and a cover secured to said loops, substantially as described.

2. A kite comprising sticks, a pair of loops at the ends of the sticks, a ring or stop on each stick exteriorly of the loops, to prevent the loops from becoming detached, and a cover secured to said loops, substantially as described.

3. A cover for kites, provided at each corner with two spaced eyes adapted for attachment to the kite-frame, substantially as described.

CLAISON S. WARDWELL.

Witnesses:
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