March 2, 1948. W. A. NOWKA 2,437,038

KITE

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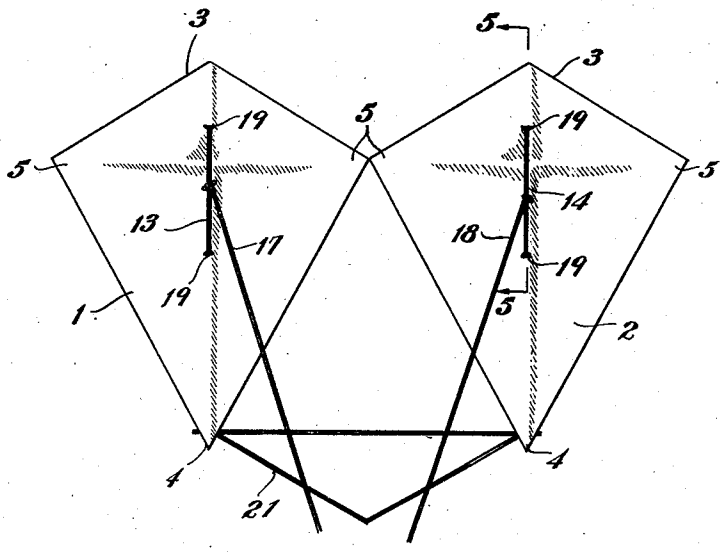


Fig. 1

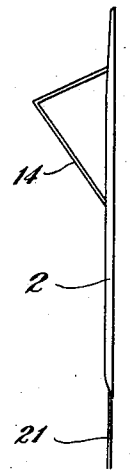


Fig. 2

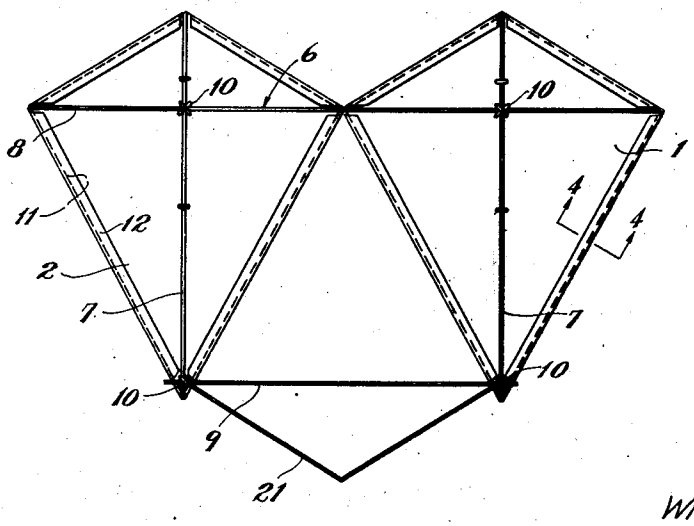


Fig. 3

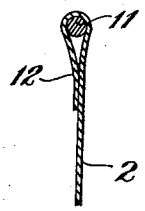


Fig. 4

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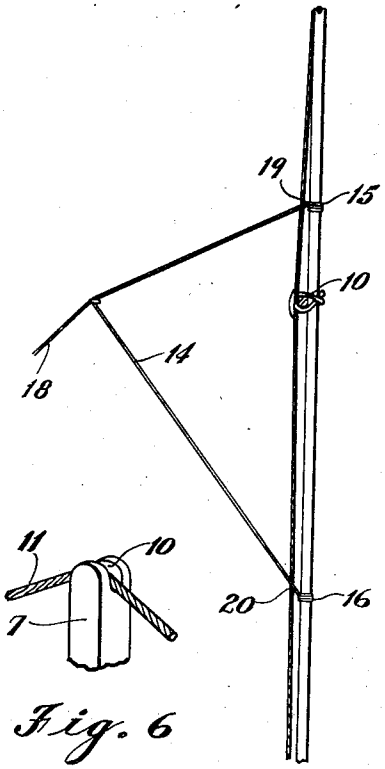


Fig. 6

Fig. 5

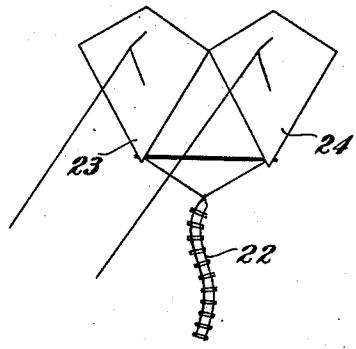


Fig. 7

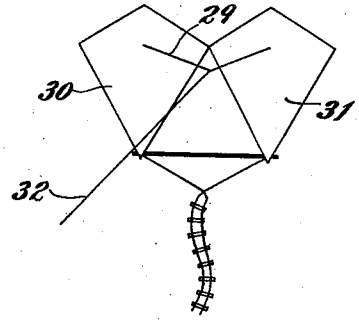
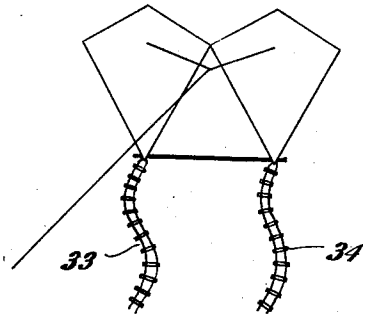


Fig 9

Fig. 10



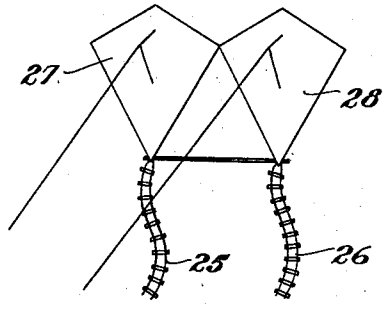


Fig 8

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2,437,038

KITE

Wilfred A. Nowka, Hastings, Nebr.

Application November 18, 1946, Serial No. 710,589

5 Claims. (Cl. 244—153)

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My invention relates to improvements in kites, for amusement purposes, the primary object in view being to provide a simply constructed inexpensive, strong kite especially adapted for control from the ground through kite strings to perform stunts and thereby add to the amusement of flying the same.

Other and subordinate objects, also comprehended by my invention, together with the precise nature of my improvements and the advantages thereof will be readily understood when the succeeding description and claims are read with reference to the drawings accompanying and forming a part of this specification.

In said drawings:

Figure 1 is a view in front elevation of a preferred embodiment of my improved kite.

Figure 2 is a view in side edge elevation.

Figure 3 is a view in rear elevation.

Figure 4 is a fragmentary view in transverse section taken on the line 4—4 of Figure 1 and drawn to a larger scale.

Figure 5 is a fragmentary view in longitudinal section taken on the line 5—5 of Figure 1 and drawn to a larger scale.

Figure 6 is a fragmentary view in perspective of one end of one of the frame sticks.

Figure 7 is a view in front elevation of a modified embodiment of my improved kite.

Figures 8, 9 and 10 are similar views of modified embodiments of the kite.

Referring to the drawings by numerals, and first to Figures 1 to 6 thereof, my improved kite in the preferred embodiment thereof is of twin form with a pair of side by side, substantially diamond shaped, like surface forming sections 1, 2 of paper or the like, with obtuse angled leading ends 3, acute angled tail ends 4 and acute angled side corners 5. The sections 1, 2 are fastened to a stick frame 6 common to both sections and with longitudinal axes parallel and confronting side corners 5 substantially engaging.

The stick frame 6 comprises a pair of parallel side sticks 7 of substantially the same length as the sections 1, 2 and arranged in the longitudinal axes of said sections, a leading cross stick 8 of substantially the same length as the combined width of sections 1, 2 between the side corners 5, and which is aligned with said corners and extended across the side sticks 7, and a trailing cross stick 9 slightly longer than the distance between the tail ends 4 of the sections 1, 2 and arranged to extend across said tail ends 4 and across the side sticks 7 parallel with the leading cross stick 8. The side sticks 7 and the leading

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and trailing cross sticks 8, 9 are tied together at the points of intersection thereof by string or the like as at 10, and the ends of said sticks are provided with a notch 10' one of which is shown in Figure 6. A cord 11 is trained, taut, around the ends of the side and cross sticks 7, 8, 9 in the notches 10' and is suitably fastened to the leading cross sticks 7 midway between the side sticks 7. The edges of the sections 1, 2 are folded over the cord 11 to form narrow edge flaps 12 which are pasted down by any suitable adhesive, not shown.

A pair of slack bridle cords 13, 14 are suitably tied at the ends thereof to the side sticks 7 as represented at 15, 16 upon opposite sides of the leading cross stick 7 with a pair of kite strings 17, 18 suitably attached to the same intermediate the ends of said bridle cords. The bridle cords 13, 14 are extended through suitable apertures 19, 20 in the sections 1, 2.

A cord 21 for attachment of a tail to the described kite is secured in any suitable manner at its ends to the side sticks 7 preferably at the points of intersection of said side sticks and the trailing cross sticks 9.

In flying the described kite, if a pull is exerted on either kite string 17, 18 without pulling on the other string, the kite may be caused to glide sideways toward the side at which such pull is exerted. By pulling harder on either kite string 17, 18 the kite may be caused to turn loops and will right itself and ascend when such pull is eased and both strings held so as to be of even length.

In the modified embodiment of the kite shown in Figure 7, the same is equipped with a single tail 22, of the usual type, attached to the tail cord 21 in the center of said cord to distribute the stabilizing effect of the tail between the sections 23, 24. Otherwise the construction and arrangement is the same as described with reference to the preferred embodiment of the kite.

However, and as shown in Figure 8, twin tails 25, 26 may be provided on the kite and suitably attached to the tail ends of the twin sections designated 27, 28. In the modified embodiment of the kite shown in Figure 9, said kite may be equipped with a single bridle cord 29 suitably attached at its ends in the longitudinal centers of the sections 30, 31 and for a single kite string 32. Otherwise the construction is the same as described with reference to the described embodiment of the kite, shown in Figure 7.

In still another modified embodiment of the kite, otherwise the same as described with ref-

erence to Figure 9, said kite may be provided with twin tails **33**, **34** as shown in Figure 10.

The foregoing will, it is believed, suffice to impart a clear understanding of my invention, without further explanation.

Manifestly, the invention, as described, is susceptible of modification without departing from the inventive concept, and right is herein reserved to such modifications as fall within the scope of the appended claims.

What is claimed is:

1. A kite comprising twin surface forming sections substantially diamond shaped, a frame common to both sections and to which said sections are secured in side by side coplanar relation, said frame comprising a pair of side sticks in the longitudinal axes of said sections, and a pair of leading and trailing cross sticks connecting said side sticks together.

2. A kite comprising twin surface forming sections substantially diamond shaped, a frame common to both sections and to which said sections are secured in side by side coplanar relation, said frame comprising a pair of side sticks in the longitudinal axes of said sections, a pair of leading and trailing cross sticks connecting said side sticks together, and a cord stretched taut around the ends of said sticks and fastened to said leading cross stick in the center thereof and to which the edges of said sections are fastened.

3. A kite comprising twin surface forming sections substantially diamond shaped, a frame common to both sections and to which said sections are secured in side by side coplanar relation, a pair of bridle cords fastened at opposite ends thereof to said frame in the longitudinal centers of said sections, and a pair of kite strings connected to said bridle cords.

4. A kite comprising twin surface forming sections substantially diamond shaped, a frame common to both sections and to which said sections are secured in side by side coplanar relation, a tail for said sections, and a cord supporting said tail in the center thereof and having the ends thereof fastened to said frame in the longitudinal centers of said sections.

5. A kite comprising twin surface forming sections substantially diamond shaped, a frame common to both sections and to which said sections are secured in side by side coplanar relation, a pair of bridle cords fastened at opposite ends thereof to said frame in the longitudinal centers of said sections, and a pair of kite strings connected to said bridle cords, said frame having fastened thereto in the longitudinal centers of said sections a pair of tails for the sections.

WILFRED A. NOWKA.

REFERENCES CITED

The following references are of record in the file of this patent:

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Number	Country	Date
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