

Aug. 4, 1925.

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T. E. MEENA

KITE

Filed May 4, 1925

Fig. 1.

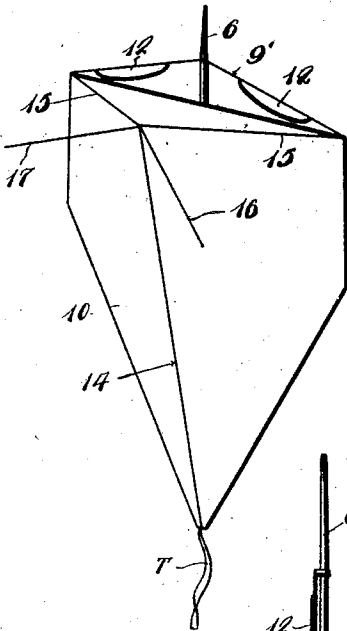


Fig. 2.

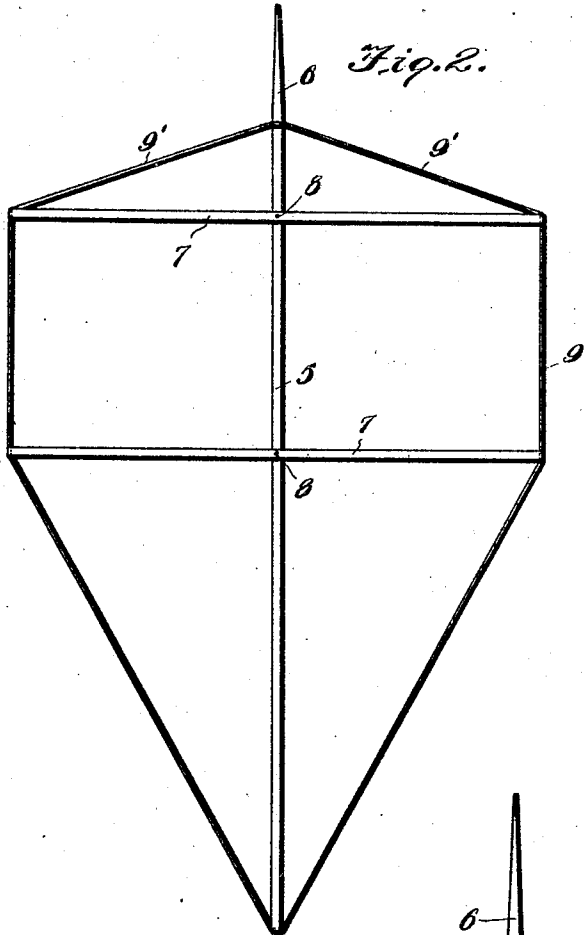


Fig. 3.

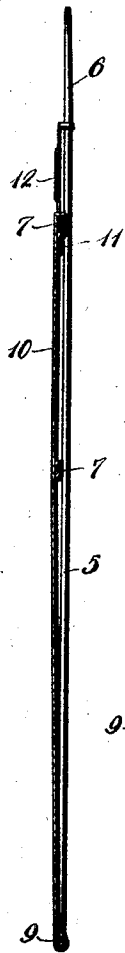
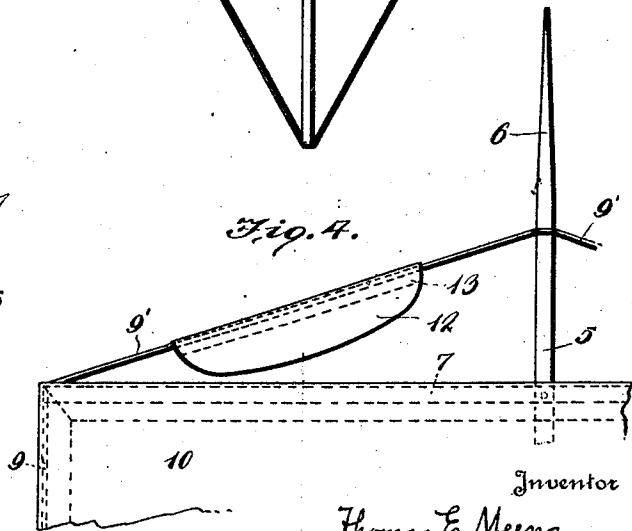


Fig. 4.



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UNITED STATES PATENT OFFICE.

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KITE.

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To all whom it may concern:

Be it known that I, THOMAS E. MEENA, a citizen of the United States, residing at Ashtabula, in the county of Ashtabula and State of Ohio, have invented certain new and useful Improvements in Kites, of which the following is a specification.

This invention relates to improvements in kites, having for an object the provision of a novel and simple structure which may be comparatively inexpensively built up.

Another object is to provide a kite having an unusual appearance and one which will create a humming sound when flying and further to provide a kite whose movements in the air may be controlled by the operator.

Other objects will be in part obvious and in part pointed out hereinafter.

In order that the invention and its mode of operation may be readily understood by those skilled in the art, I have in the accompanying illustrative drawings and detailed description thereof pointed out the preferred embodiment of the same.

Figure 1 is a perspective view illustrating the general appearance of a complete kite constructed in accordance with my invention;

Figure 2 is a view of the frame and peripheral cord prior to attaching the cover or body and the flaps;

Figure 3 is a vertical sectional view of the kite; and

Figure 4 is a detail view of the upper portion showing the flap in normal position.

Similar characters of reference designate similar parts throughout.

This kite comprises a relatively long main rib 5 whose upper end 6 is preferably pointed for a purpose hereinafter set forth. A pair of spaced transverse stays or ribs 7 are fixed by means of fasteners 8 to the main rib 5 as shown in Figure 2. The ends of the transverse stays or ribs 7 and the lower end of the main rib 5 are notched for the reception of a peripheral cord or thread 9 to which a cover or body portion 10 is attached. This body portion or cover 10 may be formed of vari-colored paper or cloth as in other kites. The upper edge of the cover or body portion 10 is folded over the upper rib 7 and pasted or stitched at 11 as shown in Figure 3. The remaining peripheral portions of the cover 10 are fixed to the cord 9 in substantially the manner just described.

Instead of carrying the upper portion of the peripheral cord 9 straight across in parallel relation to the transverse ribs 7, I incline the portions 9' upwardly to the main rib 5 from the outer ends of the upper transverse stay 7, thereby providing substantially triangular open spaces between said upper rib and the upper portion 9' of the cord. To this portion 9' I attach flaps 12 as shown in Figure 4, these flaps being substantially semi-elliptical and having one straight edge 13 which is carried about the portion 9' and pasted or stitched to the main portion to hold the flaps in a fixed position. When the kite is flying these flaps will vibrate rapidly and produce a humming sound.

The bridle is made up of a set of cords including a cord 14 attached at one end to the base of the main rib, a pair of transverse cords 15 attached at their outer ends to the extremities of the upper transverse stay 7 and the cord 16 one end of which is attached to the point of intersection of the main rib and the lower transverse stay. These cords are all brought to a single point and tied together for connection to the main kite string 17 which is held by the operator. Any preferred type of tail T may be attached to the main rib 5 as in the ordinary kite construction.

Kite battles are quite common, it being the object to destroy the kites while they are flying and it is for this purpose that I sharpen the upper end 6 of the main rib and extend it beyond the body of the kite. This sharpened end 6 may be used to strike the opponent's kite and furthermore is often a means of avoiding injury to a falling kite due to its penetrating the earth and holding the kite in an upright position.

Manifestly, certain changes in minor structural details may be resorted to, and such of these changes as fall within the scope of the appended claims, I consider within the spirit of my invention.

I claim:—

1. A kite comprising, crossed interconnected ribs and stays, a peripheral cord engaging the ends of certain of the stays and spaced from one end of one stay, a cover attached to the major portion of the peripheral cord, and flaps carried by the portions of the peripheral cord spaced from said end.
2. A kite comprising, a main rib, a pair of spaced transverse stays, a peripheral cord engaging the end portions of said rib and

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stays, a cover having a major portion of its edge attached to the peripheral cord and the remaining portion attached to one of said stays to provide substantially triangular spaces between the last named rib and certain portions of said peripheral cord, and flaps arranged within said spaces and having their outer portions connected to the peripheral cord.

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10 3. A kite comprising, a main rib having one end portion pointed, upper and lower transverse stays fixed to the main rib, a peripheral cord fixed to the ends of the transverse stays and the lower end of the

main rib and to the upper portion of the main rib at a point spaced from its extremity, a cover having its side edges attached to the peripheral cord and its upper edge attached to the upper transverse stay to form a pair of substantially triangular spaces between said upper rib and the adjacent portions of said cord, and flaps arranged within said spaces and having their outer edge portions connected to the peripheral cord.

In testimony whereof, I affix my signature.

THOMAS E. MEENA.