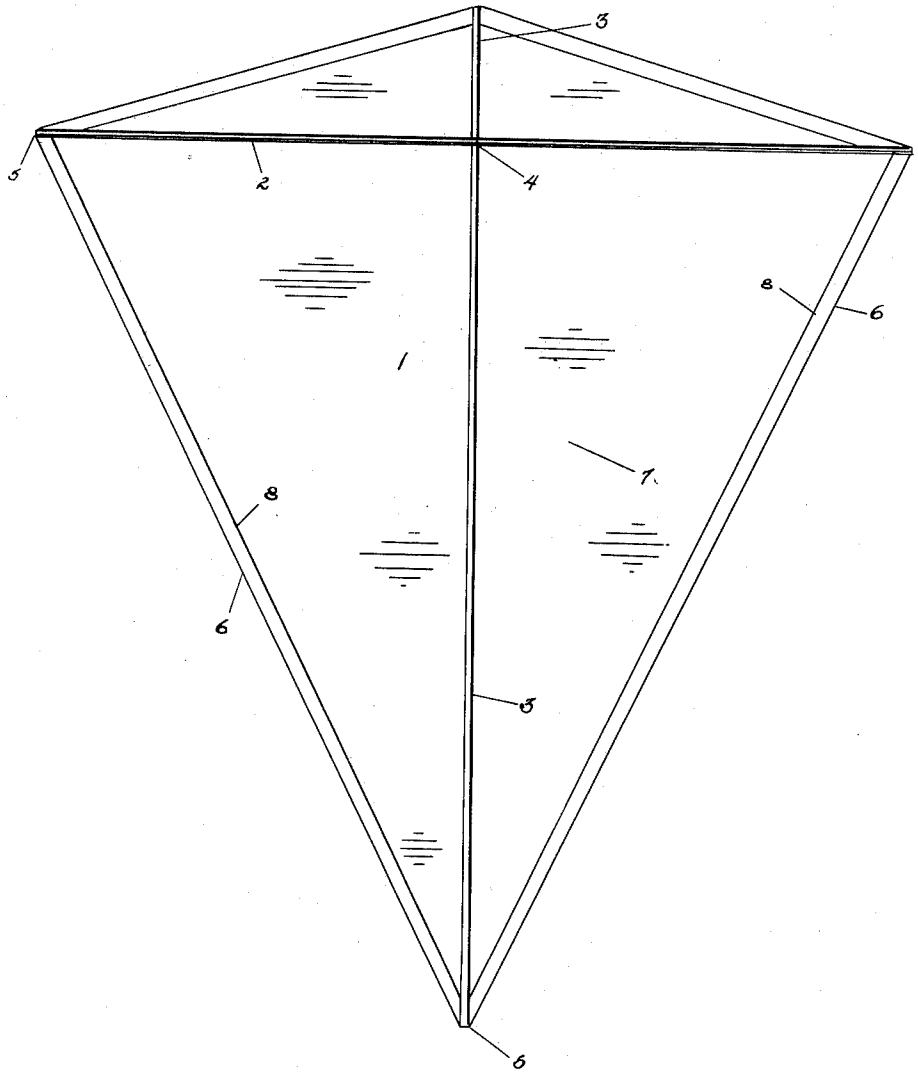
June 6, 1933. F. M. WATSON 1,912,808

KITE

Filed Jan. 11, 1932



INVENTOR
Frank M. Watson
BY
Townsend & Beaman
ATTORNEY

Patented June 6, 1933 1,912,808

UNITED STATES PATENT OFFICE

FRANK M. WATSON, OF JACKSON, MICHIGAN

KITE

Application filed January 11, 1932. Serial No. 585,852.

This invention relates to improvements in kite structure and has particular reference to kites of the bow type.

One of the objects of this invention is to provide a light and sturdy kite with a flexible wire frame which may be permanently bent to produce the required bow and is covered with an elastic material which will permit the material to be applied to the framework prior to the flexure of the frame to produce the bow.

Another object of this invention is to provide a light and sturdy kite having a resilient transparent covering of regenerated cellulosic sheet material which is highly resistant to wind and moisture and gives the kite an attractive appearance not present in kites covered with paper or cloth.

A further object of this invention is to provide a bow kite with an elastic covering which may be applied to the framework prior to the flexure thereof to produce the bow and which will expand and shrink after the formation of the bow and thus adjust itself to the alterated framework of the kite.

With these and other objects which will become apparent as the description proceeds, my invention resides in the combination and arrangement of parts and material hereinafter described and set forth in the claims.

In the accompanying drawing is shown a front elevation of my improved kite structure wherein reference character 1 generally designates a bow kite consisting of horizontal and vertical frame members 2 and 3, respectively, preferably of light stiff wire but which may be of any other material of sufficient strength and lightness. The frame members 2 and 3 are secured together at 4 in any well known manner such as by soldering or spot welding.

To provide the outline framework of the kite, the members 2 and 3 are notched at their ends 5 and a cord or light wire 6 strung through the notches 5 and between the respective ends of the frame members 2 and 3.

With the framework of the kite in substantially a single plane a covering 7 of regenerated cellulosic material, or the like, having light, elastic and weather proof characteristics, slightly larger than the outline formed by the cords or wires 6, is doubled back over the cords or wires 6 and glued or otherwise secured to itself along the lines 7 to completely cover the kite frame. One sheet material, in particular, sold under the trade name of "cellophane", has proven to possess all of the required characteristics.

After the framework is covered, the frame member 2, which constitutes the bow, may be flexed. With the framework in its alterated state, certain portions of the covering material 7 particularly around the upper portion of the kite are placed under a strain and unless the covering 7 was capable of stretching, which is not the case in the use of the conventional paper covering, it would tear. Also, while certain portions of the covering 7 are stretched when the bow is bent, other portions, particularly in the lower portion of the kite, become slackened and result in baggy pockets on both sides of the lower portion of the frame member 3 and for this reason does not permit the framework to be covered with a non-shrinking material, such as paper, prior to bending the bow. However, it has been found by experimentation that regenerated sheet material, particularly that type sold under the trade name "cellophane", when placed upon the framework in a dry condition will shrink in unstressed areas after the bow is bent when the kite is subjected to the normal conditions of the outside atmosphere and thus presents a covering having a smooth evenly tensioned surface which will permit the kite to be flown without a counter balancing tail.

From the foregoing description it will be apparent that I have provided a covering material for a bow kite which will permit the material to be applied to the framework prior to the bending of the bow and thus greatly facilitates the application of the covering material. Furthermore I have provided a transparent kite covering which is far more attractive than the usual paper or cloth covering and is capable of adjusting itself to the framework of the kite to present a smooth balance wind resisting lifting surface.

Having thus described my invention it will be seen that changes and modifications may be made therein by those skilled in the art without departing from the spirit and scope of the invention and I do not wish to be limited to the details herein disclosed, but what I claim as new and desire to be secured by Letters Patent is:

1. A kite comprising a framework and a covering for said framework of regenerated cellulosic sheet material, the essential characteristic of said material being its property of expanding and contracting to adjust itself to said framework.

2. A bow kite comprising a framework and a covering for said framework of regenerated cellulosic sheet material, the essential characteristic of said material being its property of expanding and contracting to adjust itself to said framework.

In testimony whereof I hereunto affix my signature.

FRANK M. WATSON.