(No Model.)

C. SCHULTZE.

KITE CORD STICK.

No. 406,672. Patented July 9, 1889.

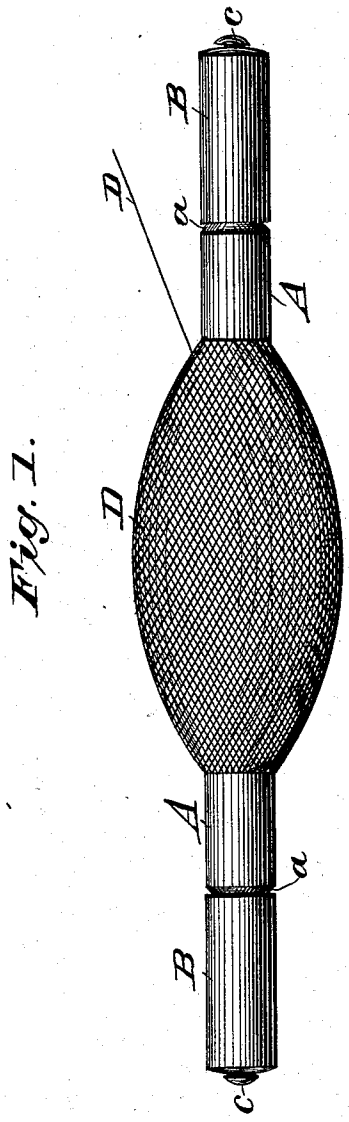


Fig. 1.

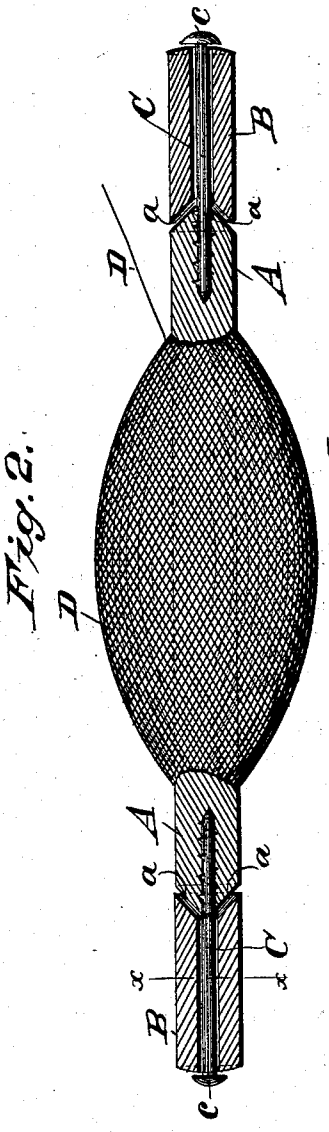


Fig. 2.

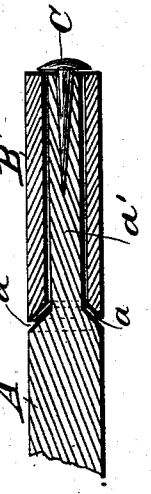


Fig. 4.

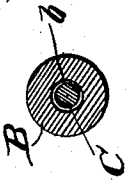


Fig. 3.

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UNITED STATES PATENT OFFICE.

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KITE-CORD STICK.

SPECIFICATION forming part of Letters Patent No. 406,672, dated July 9, 1889.

Application filed September 17, 1888. Serial No. 285,592. (No model.)

To all whom it may concern:

Be it known that I, CHARLES SCHULTZE, of the city, county, and State of New York, have invented a new and Improved Kite-Cord Stick, of which the following is a full, clear, and exact description.

My invention has for its object to provide a simple, inexpensive, and efficient device for holding cord used for flying kites, and in a manner allowing the cord to be freely wound onto the stick in the usual way and to be paid out easily therefrom by the pull of the kite and without danger of hurting the hands or of letting the stick slip from the grasp of the person flying the kite.

The invention consists in certain novel features of construction and combinations of parts of the kite-cord stick, all as hereinafter described and claimed.

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

Figure 1 is a side elevation of a kite-cord stick made in accordance with my invention, and with a quantity of cord wound thereon. Fig. 2 is a longitudinal central sectional elevation thereof. Fig. 3 is a cross-section of the stick, taken on the line *x x* in Fig. 2; and Fig. 4 is a detail longitudinal section of one end of a kite-cord stick of modified form and drawn to a larger scale.

The preferred form of the kite-cord stick is shown in Figs. 1 and 2 of the drawings, and comprises a main central body portion A, made preferably of wood, and two wooden sleeves or tubular end extension-pieces B B, forming handles, and to which the main body of the stick is journaled, and preferably by barbed-wire nails C C, which are passed through the central lengthwise bores *b b* of the handles B B into the opposite ends of the stick-body A, the heads *c c* of the nails overlapping the ends of the handles to prevent their disengagement from the stick-body, which preferably has the same diameter as the handles.

It will be noticed that the ends of the stick-body A are tapered or beveled outward at *a a* toward their centers, into which the nail-journals of the handles are fastened, and the adjacent opposing inner ends of the stick-handles are preferably countersunk to correspond with the taper or bevel of the extremities of the stick-body. The object of these annular tapering or conical faces *a a*, which range preferably at about angles of forty-five degrees to the axis of the stick-body A, is to prevent the kite-cord D from being caught in the joints between the ends of the stick-body and its handles, as the cord is wound upon the stick in a somewhat elongated or elliptical ball or mass in the usual and well-understood manner.

It is not essential that the inner ends of the handles be countersunk to correspond with the conical ends of the stick-body, as these ends would alone prevent sticking of the cord into the joints of the body and handles were the latter cut off squarely at their inner ends; but by countersinking the handles this desirable function of the stick is more fully assured; hence the countersunk handles are preferred in practice.

It is manifest that the kite-cord may be wound upon the stick quite as easily as if the stick were solid or made in one piece for its entire length, and when it is desired to pay out the cord it is only necessary to hold the stick by its end handles and let the stick-body turn by its nail, pin, or screw journals within the handles as the cord is unwound to any desired extent by the pull of the kite.

I am not limited to the use of the nail or equivalent pin or screw journals C C for the stick-body, as the latter may simply be reduced at the ends to form projecting pins *a'*, onto which the handles B' will be loosely placed and held by a nail or headed pin C', driven into the end of the stick-body pin *a'*, and as will be understood from Fig. 4 of the drawings. In this case the inclined shoulder or face *a*, at the joint between each handle and the stick-body, will be retained, substantially as above described for the preferred form of stick.

I purpose making the entire stick of wood, except the nail or pin retainers for the handles; but the handles, as also the stick-body, may be made of short lengths of metal tube or of any other suitable material, the object being to provide a very cheap, effective, and

serviceable cord-stick, which will be within the reach of all kite-fliers.

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

1. A kite-cord stick made with a body portion adapted to receive the cord and provided with tapering or conical end parts or shoulders, and handles axially in line with the stick-body, and on which the body is journaled, substantially as herein set forth.

2. A kite-cord stick made with a body portion adapted to receive the cord and provided with tapering or conical end parts or shoulders, and handles at the ends of the body of like diameter and axially in line therewith, and on which the body is journaled, said handles being countersunk to correspond with the conical ends of the stick-body, substantially as herein set forth.

3. A kite-cord stick made with a body portion adapted to receive the cord and provided with tapering or conical end parts or shoulders, and handles on which the stick-body is journaled and countersunk to correspond with the ends of the stick-body at the joints therewith, substantially as herein set forth.

4. The combination, in a kite-cord stick, of a body portion A, having tapering ends or shoulders *a a*, tubular handles B B, countersunk to correspond with said ends *a a*, and headed nails or pins C C, passed through the handles into the ends of the stick-body, substantially as herein set forth.

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