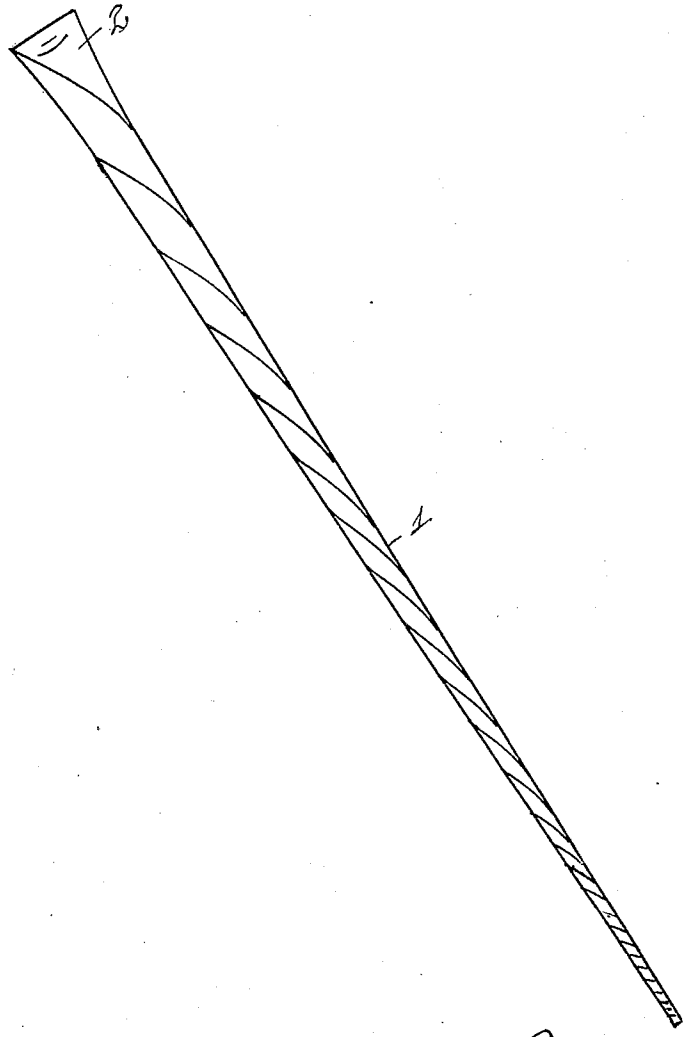
I. L. DAVIS.

ARROW.

APPLICATION FILED NOV. 25, 1919.

1,346,639. Patented July 13, 1920.



Irving L. Davis

Inventor

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UNITED STATES PATENT OFFICE.

IRVING L. DAVIS, OF DAYTON, OHIO.

ARROW.

1,346,639. Specification of Letters Patent. **Patented July 13, 1920.**

Application filed November 25, 1919. Serial No. 340,556.

To all whom it may concern:

Be it known that I, IRVING L. DAVIS, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Arrows, of which the following is a specification.

My invention relates to improvements in toys with a more particular reference to an improved arrow or dart that is designed to be shot from toy air guns in in-door and out-door amusement.

The object of the invention is to provide an arrow that combines strength and lightness and the qualtities of being inexpensive in cost of manufacture and free from any element of danger.

To these ends the arrow is constructed of paper wound in tapered form and throughout its length made hollow.

The figure of the accompanying drawing is a side elevational view.

The accompanying drawing illustrates an arrow —1— made of a suitable quality of paper, and of cylindrical and tapered form. The larger end of the arrow when formed has a flat head —2— and the opposite end terminates in a blunt point. The said arrow is preferably formed of a medium weight of Manila paper and when wound in the tapered form the head —2— is formed by flattening the large end and gluing the end so that the paper will not unwind.

The end —2— being widened and made flat acts to perform the well known function of a feather to direct the arrow as a keel or rudder. The arrow being formed of paper and made hollow, is very light, and this quality of lightness which is inherent in the material, renders the same harmless in use. For example, in contacting with a surface, a yielding, cushion-like impact is made which results in no injury to furniture or glass windows, or any other object that would be apt to be broken if the arrow were made of a more hardened material.

In forming the arrow it is wound on a taper and the strip of paper is glued as it is being wound upon itself and the arrow is thus prevented from unwinding.

Having described my invention, I claim:

As a new article of manufacture, an arrow made of paper and having a tapered form throughout its length and made hollow, the larger end thereof being flattened and united by an adhesive to form a rudder to direct the flight of the arrow and to prevent the paper from unwinding.

In testimony whereof I affix my signature.

IRVING L. DAVIS.