

March 12, 1940.

O. G. DYKES

2,193,397

ARROW

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Fig. 1.

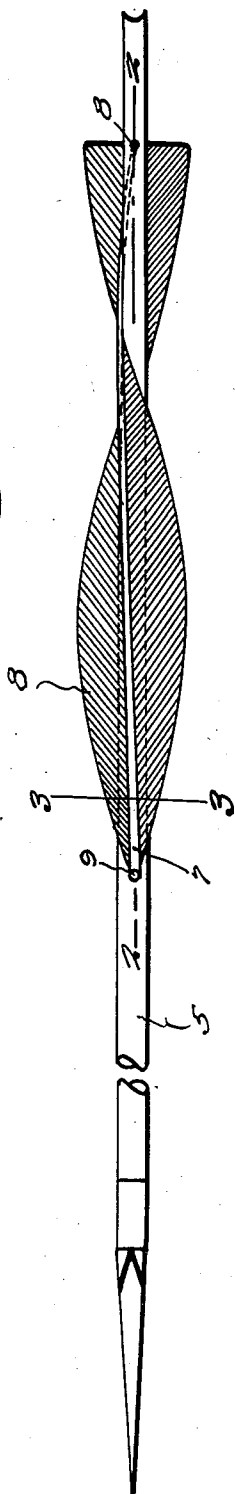


Fig. 2.

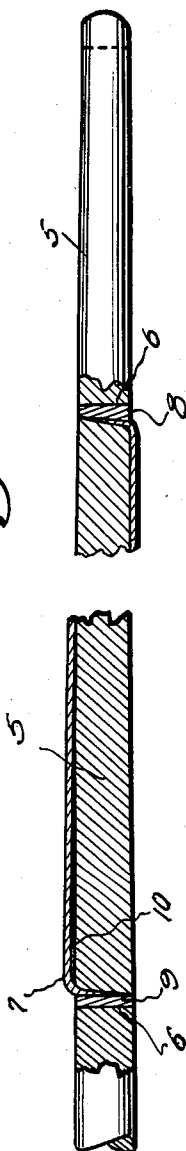
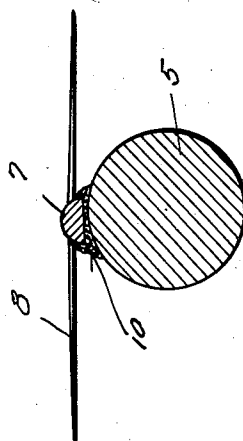


Fig. 3.



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ARROW

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3 Claims. (Cl. 273—106.5)

The present invention relates to arrows and has for its primary object to provide a projectile of this character having a spirally twisted feather secured adjacent the rear end of the shaft of the arrow whereby to cause a rotation of the arrow while in flight to assist in maintaining the same in a straight course.

A further object is to provide an article of this character of simple and practical construction, which is strong and durable, relatively inexpensive to manufacture and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction as more fully hereinafter described and claimed, reference being had to the accompanying drawing forming part hereof, wherein like numerals refer to like parts throughout, and in which—

Figure 1 is a side elevational view.

Figure 2 is a fragmentary longitudinal sectional view taken substantially on a line 2—2 of Figure 1, and

Figure 3 is a transverse sectional view taken substantially on a line 3—3 of Figure 1.

Referring now to the drawing in detail, the numeral 5 designates the shaft of the arrow having a pair of transversely extending longitudinally spaced openings 6 adjacent its rear end, the innermost of said openings having the inner end of the stem 7 of a feather 8 inserted therein, the stem and the feather being twisted spirally and having the outer end of the stem 8 inserted in the outermost opening, the spiral twisting of the feather permitting the outer end 8 of the stem to be inserted in its opening in a direction opposite from that of the inner end 7, as will be clearly apparent from an inspection of Figure 2 of the drawing.

The respective ends of the stem are secured in position in the opening by wedge members 9 and the stem of the feather may be secured

throughout its length to the side of the shaft 5 by means of a suitable adhesive 10.

From the foregoing it will be apparent that by spirally twisting the feather 8 in a manner as illustrated in Figure 1 of the drawing, that the flight of the arrow will be maintained in a true course by reason of the rotary motion imparted to the arrow.

It is believed the details of construction of the article will be readily understood from the foregoing without further detailed explanation.

Having thus described the invention, what I claim is:

1. An arrow comprising a shaft having longitudinally spaced transversely extending openings formed therein adjacent its rear end and a spirally twisted feather having its stem portion bent laterally and secured in said openings.

2. An arrow comprising a shaft having a pair of longitudinally spaced transversely extending openings, a feather including a stem having its inner end inserted in the innermost of said openings, said feather being twisted spirally and having its outer end inserted in the outermost of said openings and in a direction opposite to that of the inner end of the stem, and wedge members inserted in said openings and securing the respective ends of the stem therein.

3. An arrow comprising a shaft having a pair of longitudinally spaced transversely extending openings, a feather including a stem having its inner end inserted in the innermost of said openings, said feather being twisted spirally and having its outer end inserted in the outermost of said openings and in a direction opposite to that of the inner end of the stem, and wedge members inserted in said openings and securing the respective ends of the stem therein and an adhesive securing the intermediate portion of the stem to said shaft.

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