

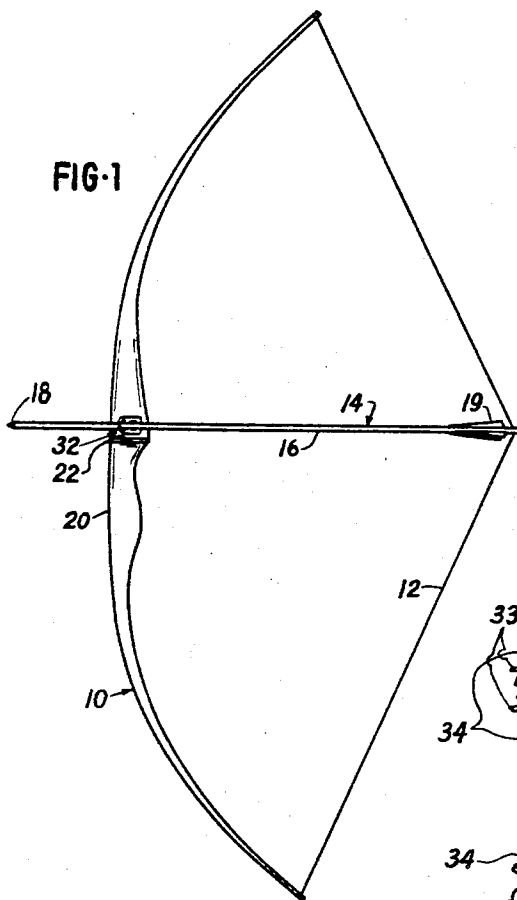
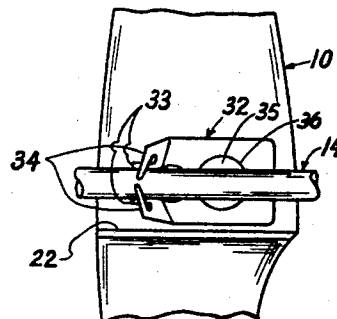
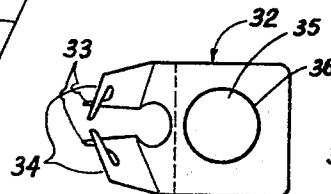
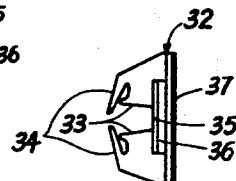
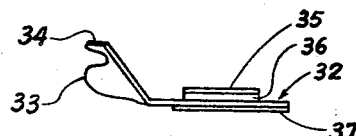
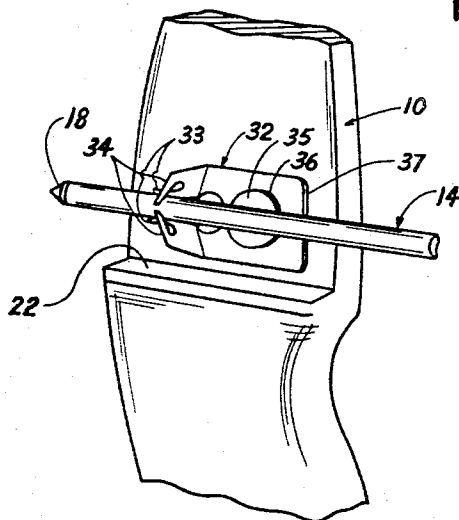
Oct. 22, 1968

J. T. DYE

3,406,676

ARCHERY ARROW GUIDE

Filed Feb. 21, 1966



INVENTOR
Joe Travis Dye
JOE TRAVIS DYE

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3,406,676

ARCHERY ARROW GUIDE

Joe Travis Dye, 1707 Childerlee Lane NE.,

Atlanta, Ga. 30329

Filed Feb. 21, 1966, Ser. No. 532,521

5 Claims. (Cl. 124-41)

ABSTRACT OF THE DISCLOSURE

This invention provides an arrow guide for mounting on the side of an archery bow in which unrestrained lateral movement of an arrow in any direction is prevented during aim, draw and release of the arrow, as well as when an arrow shaft is placed in the guide and in contact with the undrawn bow string. Constructed of flexible material with controlled deflections of portions thereof, this arrow guide permits use on a variety of arrow shaft diameters and can be easily adjusted manually by an archer during shooting.

This invention relates to archery equipment and more particularly to an arrow supporting, holding and guiding device adapted for use in conjunction with archery bow and arrow.

The principal object of this invention is to provide an archer with a device for holding the arrow in place on the archery bow while the arrow is drawn, aimed, and released for each shot.

It is also an object of the present invention to provide an archer with a device that will guide the arrow out of the archery bow (upon release of the arrow from the bow string) similar to a gun barrel guiding its projectile when shot.

A further object of this invention is to provide an archer with an arrow guiding device that can be hand adjusted to fit the various diameters of arrow shafts. An archery arrow guiding device that will help eliminate undesirable vertical and horizontal motion of the arrow when a faulty release of the bow string occurs.

It is also an object of the present invention to provide the archer with an arrow guiding device that will allow the feathers or vanes of an arrow to escape the arrow guide yet allowing the arrow to shoot the same way each shot.

It is a further object of this invention to provide an archer with an arrow supporting, holding, and guiding device that can be used on left or right-handed bows.

Other objects and their attendant advantages will become apparent as the following detailed description is read in conjunction with the accompanying drawings wherein:

FIGURE 1 is a side elevational view of a drawn bow showing an arrow supported on the support means of the present invention;

FIGURE 2 is a broken enlarged side elevational view showing the support means of FIGURE 1;

FIGURE 3 is an elevational view of the present invention removed from the archery bow;

FIGURE 4 is an end view of the present invention;

FIGURE 5 is a plan view of the present invention;

FIGURE 6 is a broken enlarged perspective view of the bow showing the present invention in place on the archery bow and showing a broken section of the arrow in place on the present invention.

Referring now to the drawings, FIGURE 1 illustrates the drawn bow 10 having the usual bow string 12 engaging the slotted end of an arrow 14 preparatory to shooting the arrow. The arrow is of conventional construction having a shaft 16 provided at one end with a point 18 and at the opposite end with fletches 19. The

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bow is of modern conventional construction provided with a grip portion 20 and a shelf 22 adapted to support and guide an arrow. In accordance with the present invention and as illustrated in the drawings, means are provided for supporting the arrow out of contact with the shelf so that upon release the arrow is guided out of the archery bow by means of the arrow guide of the present invention, the base of which is identified generally by the numeral 32. FIGURE 2 illustrates the arrow guide base 32 mounted in position on the bow 10 with a section of the arrow 14 held in place by the first and second dual members identified as 33 and 34 respectively, all of which extend angularly from and integrally to base 32.

FIGURE 3 shows a side elevational view of the present invention having been removed from the bow. The base 32 (including first and second dual members 33 and 34) is died out of .020 inch nylon, but any similar material such as plastic could be used but the properties of nylon seem to be more suitable. As can be seen in FIGURES 2 through 6, one of each of the first and second dual members 33 and 34 is on an upper and lower portion projecting forward of base 32, with each of the upper and lower portions deflected outwardly from the plane of base 32 at an angle to the opposite side edge of base 32 as most specifically seen in FIGURE 3. In other words, when the arrow guide of this invention is mounted on a bow 10 as seen in FIGURE 1, the upper and lower portions (which each contain a member 33 and 34) are deflected outwardly from the plane of base 32 at an angle other than vertical with reference to the plane of the bow handle the base 32 is mounted on. Additionally, each of the members 33 are further deflected out of the plane of their respective deflected portion while members 34 remain in the plane of their respective deflected portion; this additional deflection of members 33 being in a forward direction, or direction of arrow travel upon arrow release when the base 32 is mounted on an archery bow. This unique fold of the members 33 allows the archer to hand adjust the arrow guide to fit various diameter arrow shafts. The unique fold permits the arrow guide to open up in the direction of the forward motion of the arrow when the arrow is released from the bow string and allows the feathers or vanes of the arrow to escape easily. The members 33 and 34 hold the arrow in place prior to and during the draw once an arrow is placed within the confines of members 33 and 34. Members 33 and 34 retain and guide the arrow when it is released thus eliminating unwanted vertical and horizontal motion of the arrow shaft during release. Members 33 also serve as a spring to return the arrow guide to its normal pre-arrow insertion configuration.

Members 35 and 36 compose an arrow plate.

Member 35 being made of leather laminated to $\frac{1}{16}$ inch foam double coated tape 36 in turn is mounted to the outer surface of base 32 when it is mounted on a bow, and functions as an arrow shock absorber and arrow cushioner.

The back side of the arrow guide base 32 utilizes almost any double coated tape 37 with a protective shield that can be removed to expose a sticking surface suitable for mounting to the bow.

FIGURE 6 is a perspective drawing of a broken section of the bow 10 with a section of the arrow 14 in place on the arrow guide ready for shooting, the arrow 14 within the confines of members 33 and 34, and spaced out of contact with base 32 by arrow plate member 35.

It is intended, of course, that the invention should not be limited to the specific embodiment or embodiments disclosed herein, since modifications may be made, and it is contemplated therefore, by the appended claims to

cover any such modifications as fall within the true spirit and scope of this invention.

Having thus described this invention, what is claimed and desired to be secured by Letters Patent is:

1. An arrow release guide and position retention device of thin flexible material for an archery bow comprising: a planar base portion for mounting on a side surface of an archery bow; and an upper and a lower portion extending from said mounting base portion in a direction away from the bow string when said base is mounted on an archery bow; each said upper and lower portion configured to provide a first and second member, said first and said second members of both the upper and lower portion in confrontation with their respective counterparts on the other portion; said upper and lower portions planarly deflected from the plane of the base portion in a direction away from the archery bow when the base portion is mounted thereon; said first members further deflected from the planes of the deflected upper and lower portions, the direction of said further deflection of the first members being away from the bow string when said base portion is mounted on an archery bow, said further deflected pair of first members spaced from said pair of second members and forming an arrow passage through the device having a four point contact on an arrow shaft placed therethrough whereby lateral movement of an arrow shaft in any direction is restrained.

2. An arrow release guide and position retention device as defined in claim 1 and including adhesive means on the side of the base portion facing the side surface of an archery bow for mounting thereon.

3. An arrow release guide and position retention device as defined in claim 1 and including a means on

the base portion side opposite the side confronting an archery bow when the device is mounted thereon, said means comprising an arrow shock absorbing cushion and spacer to eliminate contact of the base portion by an arrow shaft when placed as well as passing through the device.

4. An arrow release guide and position retention device as defined in claim 1 wherein the axes of deflection of the upper and lower portions relative to the base portion are angulated relative to each other and are both at an angle other than normal to the axis of an arrow passing therethrough when the device is mounted on an archery bow.

5. An arrow release guide and position retention device as defined in claim 1 wherein the axis of further deflection of each said first members is related to the axis of deflection of their respective upper and lower portion from the base portion in a manner so as to be other than a right angle.

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RICHARD C. PINKHAM, *Primary Examiner*.

P. E. SHAPIRO, *Assistant Examiner*.