May 16, 1961 L. B. NEFF 2,984,277

ROTO-QUIVER

Filed Dec. 7, 1959

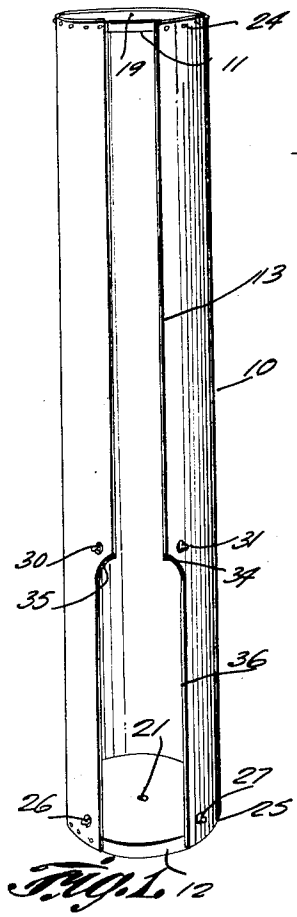


Fig. 1.

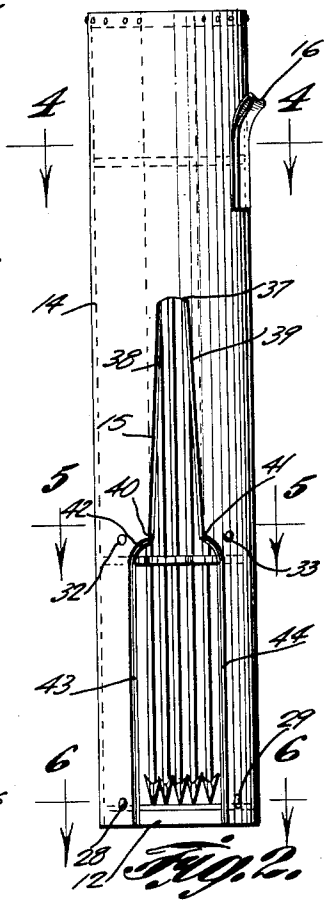


Fig. 2.

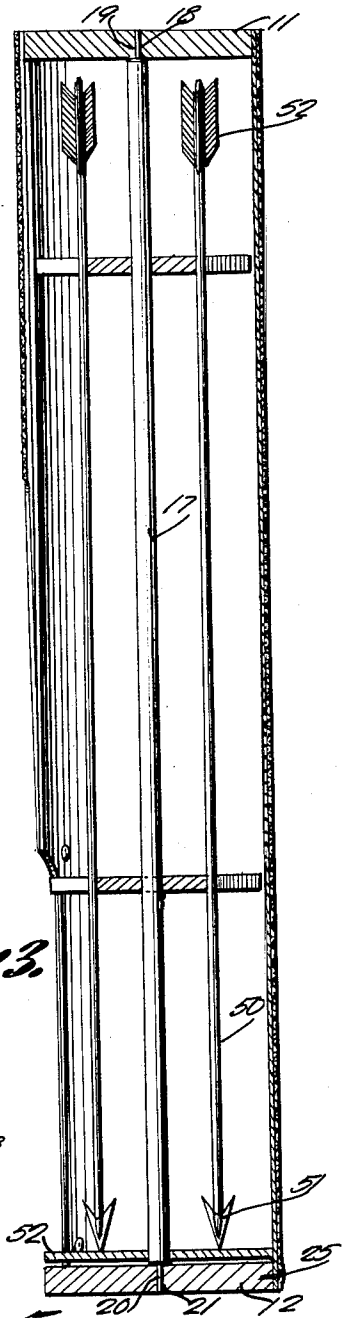


Fig. 3.

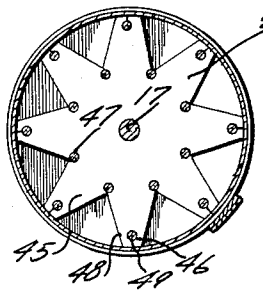


Fig. 4.

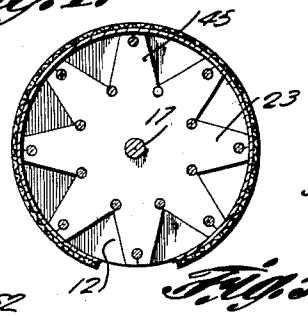


Fig. 5.

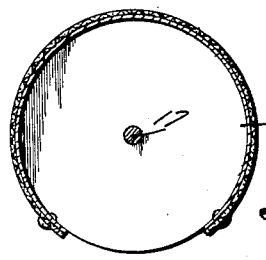


Fig. 6.

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ROTO-QUIVER

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1 Claim. (Cl. 150—1.5)

This invention relates to archery and particularly quivers, and in particular a quiver having a rotatable arrow carrying element positioned in a case with an opening in the side of the case for inserting and removing arrows.

The purpose of this invention is to provide a quiver in which arrows are retained in spaced relation preventing dulling of the points resulting from the point of one arrow rubbing against points of other arrows and also preventing feathers of the arrows being exposed to the elements and coming in contact causing a rustle or other noise.

Various types of quivers have been provided for carrying arrows on the side or back of an archer. However, with conventional quivers the arrows are bunched with the result that points are dulled by rubbing other points, and noise is produced by feathers of one arrow rubbing against feathers of another. With this thought in mind this invention contemplates a quiver in which arrows are retained in spaced relation and in which the arrows are retained in a rotatable element to facilitate withdrawing the arrows from the quiver.

The object of this invention is, therefore, to provide a quiver having a loop for supporting the quiver on a belt or strap and in which arrows are retained in spaced relation to facilitate withdrawing one arrow at a time.

Another object of the invention is to provide a quiver in which arrows are retained on a rotatable element to facilitate selecting an arrow of a particular characteristic.

A further object of the invention is to provide a quiver having a rotatable arrow holding element therein in which the quiver is of simple and economical construction.

With these and other objects and advantages in view the invention embodies an elongated cylindrical case having a continuous slot in one side, a cover for the case having a slot positioned to register with the slot of the case, and a rod having arrow retaining elements positioned thereon rotatably mounted in the case.

Other features and advantages of the invention will appear from the following description taken in connection with the drawings, wherein:

Figure 1 is a front elevational view illustrating the case of the quiver.

Figure 2 is a side elevational view, similar to that shown in Figure 1 showing the parts of the quiver assembled.

Figure 3 is a vertical section through the quiver with the parts shown on an enlarged scale and showing a pair of arrows in the quiver.

Figure 4 is a sectional plan taken on line 4—4 of Figure 2 with the parts shown on an enlarged scale showing the upper arrow retaining disc.

Figure 5 is a sectional plan taken on line 5—5 of Figure 2 showing the lower arrow retaining disc and also with the parts shown on an enlarged scale.

Figure 6 is a sectional plan taken on line 6—6 of Figure 2 also with the parts shown on an enlarged scale, showing the base of the quiver.

Referring now to the drawings wherein like reference characters denote corresponding parts the improved rotatable quiver of this invention includes a cylindrical case 10 having a disc providing a head 11 in the upper end, a similar disc providing a base 12 in the lower end and having a continuous slot 13 extending throughout the length thereof, a water repellant cover 14 having a slot 15 therein and a loop 16 on the outer surface designed to be positioned over the case 10, and a shaft 17 having a pin 18 extended from the upper end for rotatably mounting the shaft in an opening 19 in the disc 11 and a similar pin 20 extended from the lower end for rotatably mounting the shaft in an opening 21 in the base 12, and the saft 17 is provided wtih an upper arrow retaining disc 22, and a lower arrow retaining disc 23.

The head 11 is retained in the upper end of the case 10 by fasteners 24 and the base 12 is secured in the lower end by similar fasteners 25. The case is also provided with snap fastening elements 26 and 27 that are positioned to snap in receiving elements 28 and 29 on the cover 14. Similar snap fastening elements 30 and 31 are provided on the intermediate part of the case and the cover 14 is provided with corresponding snap receiving elements 32 and 33, respectively. As illustrated in Figure 1, the slot 13 extends downwardly to a point 34, at which point edges of the case at the sides of the slot extend outwardly with arcuate sections 35 providing an enlarged slot 36 in the lower portion of the case.

The slot or opening 15 in the cover extends downwardly from a point 37 with tapering edges 38 and 39 and the edges 38 and 39 extend to points 40 and 41 corresponding to the point 34 of the case 10 and from the points 40 and 41 the edges extend outwardly with arcuate surfaces 42 providing edges 43 and 44 which form a wide portion in the slot to facilitate inserting and removing arrows.

The arrow retaining disc 22 and 23, which are formed of relatively stiff sponge rubber, or other suitable material are provided with arms 45 with arrow receiving openings 46 spaced inwardly from ends of the arms and with similar openings 47 at the inner ends of the arms. The edges 48 of the arms extend into the openings 47 providing means for inserting arrows in the openings 47 and the outer ends of the arms are provided with slits 49 through which arrows are inserted in the openings 46 in the ends of the arms. The discs 22 and 23 are retained in position on the shaft 17 by adhesive cement.

With the parts assembled as illustrated and described arrows 50 having heads or points 51 and feathers 52 are inserted through the openings 13 and 15 in the case and cover and positioned in the small openings in the discs 22 and 23, with the lower ends or points of the arrows resting upon a lower disc 53 spaced above the base 12 and mounted on the lower end of the shaft 17. The disc 52 rotates with the shaft.

The enclosed quiver protects feathers of the arrows from rain, snow, and other elements, which have a tendency to affect the flight of the arrows and with the points of the arrows retained on the rotatable disc 52 the possibility of the point of one arrow rubbing against points of other arrows is substantially obviated.

It will be understood that modifications, within the scope of the appended claim, may be made in the design and arrangement of the parts without departing from the spirit of the invention.

What is claimed is:

In a quiver, the combination which comprises an elongated cylindrical case having a continuous opening in one side, discs having aligned openings in the centers thereof mounted in the ends of the case, a cover also having an opening in one side positioned over the case, the opening of the cover being in registering relation with the opening

of the case, a loop on the outer surface of the cover providing supporting means for the quiver a longitudinally disposed shaft having pins extending from the ends rotatably mounted in the case with the pins in the aligned openings of the discs, a disc on the lower end of the shaft for supporting points of arrows, and discs having radially disposed arms with arrow receiving openings in the ends of the arms and similar arrow receiving openings in the discs between the arms mounted in spaced relation upon said shaft.

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