Aug. 22, 1967 H. J. ROSE 3,337,099

QUIVERS FOR ARROWS

Filed Oct. 23, 1965

Fig. 2

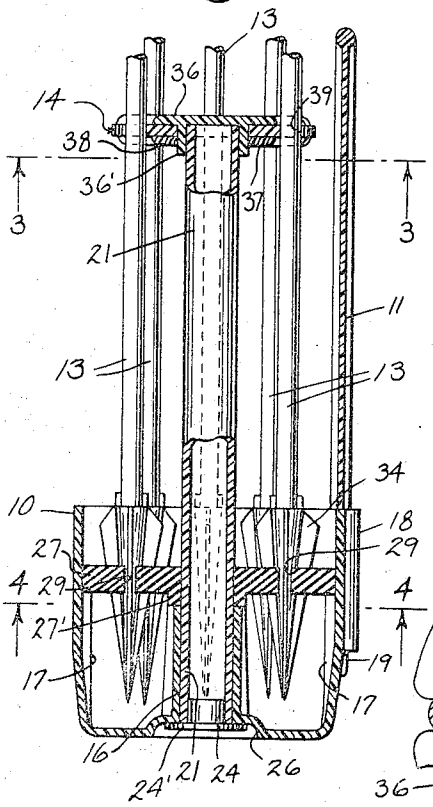


Fig. 1

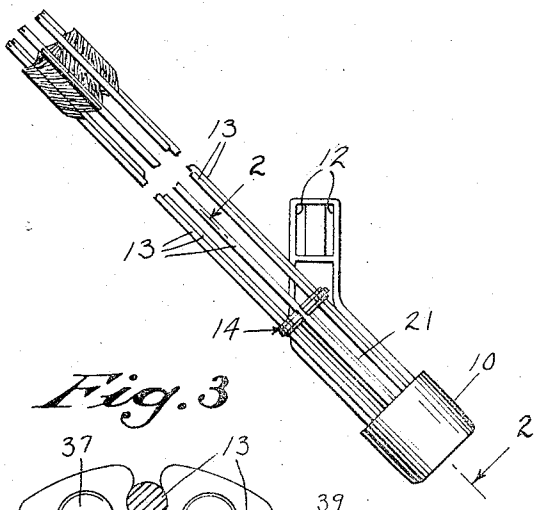


Fig. 3

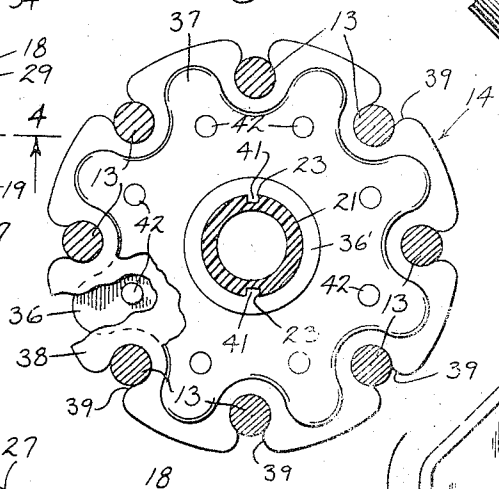


Fig. 4

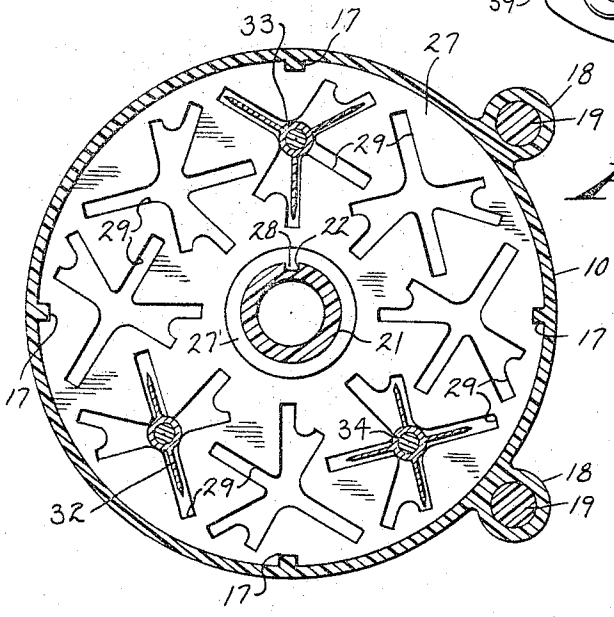
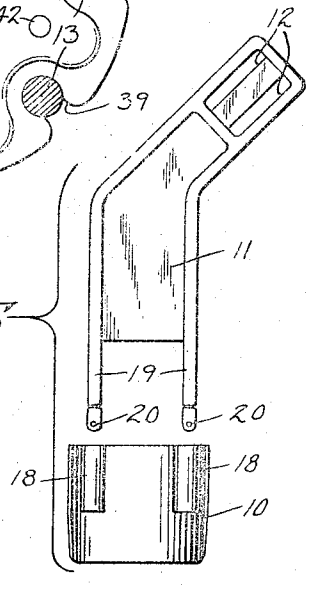


Fig. 5



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QUIVERS FOR ARROWS

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This invention relates to improvements in quivers for arrows, and more particularly to a novel and improved quiver for carrying broadhead hunting arrows.

The principal object of the present invention is to provide a quiver of the type suspended from a hunter's belt, or so-called side quiver, which is designed to hold the hunter's arrows with their heads in fixed, spaced relationship to each other, thereby preventing said sharpened metal arrowheads from knocking together and becoming dull, and also minimizing noise which might alert and scare any game in the vicinity.

A further object of the invention is to provide an improved hunting quiver wherein the arrows can be removed faster and more easily than with conventional quivers.

Further important objects of the present invention are to provide a side quiver for carrying broadhead hunting arrows wherein the sharpened edges and points of the arrowheads are covered to eliminate the possibility of the hunter inadvertently cutting or injuring himself thereon, and wherein the feathered ends of said arrows are retained closely together to protect the same from contact with branches when the hunter walks through woods or underbrush.

A further object is to provide a novel quiver which is formed of lightweight plastic materials, thereby not only making said quiver light and easy to carry, but permitting its manufacture for substantially less cost than conventional hunting quivers.

A further important object of the invention is to provide a novel quiver which is adapted to accommodate and retain broadhead hunting arrows of various types, including those having two, three, or four blade heads, and wherein the arrow support assembly can be rotated to permit the hunter to quickly select and withdraw the type of arrow he desires.

Further objects are to provide a novel and improved hunting quiver which is designed to carry more arrows than conventional quivers, and which improved side quiver assembly includes a balanced support arm for attachment to the archer's belt which can be interchangeably installed for either right handed or left handed shooters.

With the above and other objects in view, which other objects and advantages of the present invention will become apparent hereinafter, the invention comprises the improved broadhead arrow quiver disclosed in the following specification and also any and all modifications or variations thereof as may come within the spirit of said invention, and within the scope of the appended claims.

In the accompanying drawing, illustrating one preferred embodiment of the invention, and wherein the same reference numerals designate the same parts in all of the views:

FIG. 1 is a side elevational view of the improved quiver with a supply of broadhead hunting arrows mounted therein;

FIG. 2 is a vertical sectional view through the quiver assembly, taken along line 2—2 of FIG. 1;

FIG. 3 is an enlarged horizontal sectional view taken along line 3—3 of FIG. 2 showing the arrow shaft supporting unit;

FIG. 4 is a horizontal sectional view taken on line 4—4 of FIG. 2 showing the arrow head-supporting member, and illustrating three different types of arrowheads which can be accommodated therein; and

FIG. 5 is an exploded side elevational view of the quiver base and support arm assembly.

Referring now more particularly to FIG. 1 of the drawing, it will be seen that the novel quiver comprising the present invention includes a cylindrical base member **10** which is molded of an inexpensive but durable plastic material, and projecting upwardly from one side of said base is a rigid plastic support arm **11**. Said arm is provided with an angled upper end portion having a pair of parallel slotted openings **12** through which an archer's belt may be inserted to provide means for suspending said quiver at his side. A plurality of broadhead hunting arrows **13** are mounted with their heads removably held within the quiver base **10**, as will be hereinafter described in greater detail, and when the quiver is suspended at the hunter's side said arrows project upwardly and rearwardly at an angle, as shown. Spaced upwardly from the quiver base is an arrow shaft support unit **14** which functions to removably retain said arrows in spaced relationship, and, as will be described, said arrow-supporting assembly is rotatable to permit the archer to quickly select and remove a desired arrow.

As hereinabove mentioned, the molded plastic quiver comprising the present invention is not only lightweight and easy to carry, but it is durable and well adapted to withstand the rugged conditions encountered in hunting. Moreover, it has been found that said molded plastic quiver can be manufactured for substantially less cost than many of the hunting quivers presently used.

With reference now to FIG. 2 of the drawing, the plastic base member **10** employed in the present invention is cup-like in design, being provided with an open top, and formed integrally in the bottom of said base and projecting upwardly from the center thereof is a tubular stud **16**. Spaced ribs **17** are formed on the base inner surface and extend upwardly to a point intermediate the height thereof, and a pair of cylindrical brackets **18** (FIG. 5) are formed on the exterior of said base, said brackets being provided with longitudinal bores therethrough.

As best appears in FIG. 5, the quiver support arm **11** is provided with a pair of spaced, parallel legs **19** on its lower end which are adapted to be forcibly inserted into and through said base brackets **18** to removably secure said base and support arm members together. Said depending legs **19** may be provided with annular grooves to yieldably engage corresponding annular protrusions formed in the bracket bores to provide a snap engagement for retaining said support arm in position, and apertures **20** are provided in the lower, projecting ends of said leg members to permit a user to insert a string or cord therethrough which can be tied around his leg to retain the quiver in position when he walks. The present quiver can be readily adapted for use by a left-handed archer merely by manually withdrawing said support member legs **19** from the base brackets **18**, and by turning the support member **11** 90° and re-inserting said legs in the base brackets. Thus the quiver can be used by either right-handed or left-handed archers, and will always be positioned so that the arrows are withdrawn rearwardly and away from the archer's body.

With reference again to FIG. 2 of the drawing, it will be seen that an elongated hollow vertical post **21** is mounted within the upright tubular stud **16** formed in the bottom of the base member **10**, said post projecting upwardly a substantial distance above said base member, as shown. Said post **21** is provided with a longitudinal key slot **22** (FIG. 4) extending upwardly from its lower end, and a pair of key slots **23** (FIG. 3) extend downwardly a short distance from the upper end thereof, the function of which will be seen. A plug **24** having an enlarged head **24'** (FIG. 2) is pressed, bonded, or otherwise sealed in the lower end of said hollow post, there

being a recess **26** in the base bottom to accommodate the same.

Referring now to FIGS. 2 and 4 of the drawing, mounted on and surrounding the vertical center post **21** within the base **10** is the novel arrowhead-retaining member **27** featured in the present invention. Said member **27** is disc-like in form, being of a diameter to closely rotatably fit within said base, and is adapted to seat on the aforementioned spaced vertical ribs **17** formed on the base interior surface and on the upper end of the upright bearing stud **16**. Said disc-like member **27** is provided with a central aperture and depending collar **27'** adapted to closely surround the post **21**, and said collar is provided with an internal protrusion or key **28** designed to fit within the vertical key slot **22** formed in the lower portion of said post to ensure that said center post and arrowhead holder **27** will rotate together.

In the assembly of the present quiver the disc-like arrowhead holder **27** is first mounted on the lower end of the post **21** and is urged upwardly thereon until the key **28** thereon abuts the upper extremity of the post key slot **22**, said slot being of a length whereby said member **27** will seat on the base ribs **17** and on the top of the bearing stud **16** when said key abuts the upper end thereof. The lower end of the post **21** is then inserted into the top of the base bearing stud **16** and is pushed downwardly until said disc member **27** is seated on the ribs **17** and the top of said stud, as described. The plug **24** is then inserted into the lower end of said hollow post and secured therein to provide means for retaining said rotatable post in position within the base, said plug and the engagement of the key **28** against the upper extremity of the key slot **22** cooperating to prevent longitudinal shifting of said assembly.

As is shown in FIG. 4, the disc-like arrowhead-retaining member **27** has a plurality of unusually-shaped, identical openings **29** spaced therearound. Each of said openings includes a number of angled, slotted channels which radiate outwardly from a central hub, and which are designed to receive the blades of a broadhead arrow. In FIG. 4 three different types of hunting arrowheads are illustrated, a two blade head **32**, a three blade head **33**, and a four blade head **34**, and it will be seen that all of said arrowheads fit within said slotted receptacles. Said slots are so formed that when a tapered arrowhead is inserted therein it will project only partially through said disc member **27**, being wedgingly retained therein as shown in FIG. 2. Said arrowheads are completely contained within the base member to protect the same from contact with branches or other objects, and also protecting the archer from inadvertently cutting himself thereon. Eight arrowhead receptacles or openings **29** are provided in the illustrated holder **27**, but it is to be understood that any desired number of similar receptacles could be employed, and the invention is by no means to be limited in this respect.

With respect now to the arrow shaft supporting means **14** employed in the present invention, and with particular reference to FIGS. 2 and 3 of the drawing, it will be seen that said support unit is circular in form and is mounted on the upper end of the center post **21**. Said arrow support includes rigid plastic upper and lower members **36** and **37** having spaced peripheral scallops, and sandwiched therebetween is a more pliable plastic disc **38** having a plurality of inwardly projecting openings or cutouts **39** spaced around its periphery which are of a size and shape to permit an arrow **13** to be snapped into and removably retained therein. In the illustrated form of the invention eight of said shaft-retaining cutouts **39** are provided, to correspond to the slotted openings **29** in the arrowhead-retaining member **27**. Said upper, shaft-supporting unit **14** is provided with a pair of protrusions or keys **41** (FIG. 3) which fit within the aforementioned key slots **23** formed in the upper end of the post **21** to ensure the rotation of said member **14** therewith, and said slots are arranged so that said arrow shaft and head retaining openings are aligned.

The rigid upper disc member **36** of said shaft-retaining unit **14** is provided with a solid top surface and formed on the underside thereof is a depending collar **36'** which is designed to fit snugly over the upper end of the post **21**. Said member **36** is also provided with a plurality of spaced, depending nubs **42** (FIG. 3) which are adapted to be projected through registering apertures in the center disc **38** and snapped into openings in the lower disc member **37** to separably retain said device in its assembled condition. Said rigid upper and lower disc members **36**, **37** add strength and rigidity to the pliable center disc **38** without impairing the ability of the latter to releasably retain the arrow shafts.

In the use of the novel quiver comprising the present invention the hunter may insert the head of each arrow into one of the slotted openings **29** in the holder **27**, said arrowheads being wedgingly retained therein regardless of the number of blades in said heads, as described, and the upper, shaft portions of the arrows **13** are snapped into the aligned cutouts **39** formed in the upper, shaft-retaining member **14**. As hereinabove mentioned, the quiver is intended to be worn at the hunter's side, and due to the angled nature and balance of the support arm **11** said quiver is designed to hang in exactly the proper position. With the arrows **13** thus mounted in the quiver the upper feathered ends of said arrows are retained closely together (FIG. 1), thereby minimizing the possibility of the feathers being damaged by branches or brush.

When the hunter desires to remove an arrow he may rotate the entire arrow-supporting assembly, including the center post **21** and the arrowhead holder **27** and shaft-retaining unit **14** which are keyed thereto, to bring the desired type of hunting arrow into position for withdrawal. This rotation or indexing of the arrows permits the hunter to quickly select and remove an arrow with the type of head he desires for a particular shot, and is one of the unique and improved features of the present invention. To withdraw an arrow it is merely necessary to grasp the shaft and pull it upwardly a short distance so that the arrowhead will clear the top of the quiver base **10**. The shaft may be simultaneously snapped free of the resilient retaining member **14**, and the arrow is ready for use. In contrast to conventional quivers which are a foot and a half in length, or longer, with the present invention it is necessary to pull an arrow upwardly only two or three inches in order to remove it from the quiver, thereby greatly speeding and facilitating the withdrawal of said arrows. This is important in many hunting situations where a fraction of a second can be critical.

From the foregoing detailed description it will be seen that the present invention provides a novel and improved quiver for broadhead hunting arrows having a number of advantages over conventional quivers. With the present invention the sharpened arrowheads are retained in fixed, spaced relationship to prevent the same from knocking together and dulling their edges, and also eliminating noise which might scare any game in the area. Said arrowheads are also covered to prevent inadvertent injury to the user, and an arrow can be withdrawn from the present quiver in less time than is required with conventional hunting quivers.

Further important advantages of the present invention are that the feathered ends of the arrows are held closely together to avoid damage from brush or branches, and the arrow support assembly is rotatable to permit the user to select and withdraw the type of arrow desired for a particular shot. The quiver is also readily adaptable for either right-handed or left-handed archers, it is light in weight and easily carried, and it is formed of durable but inexpensive plastic material, thereby permitting its manufacture for substantially less cost than conventional quivers.

It is to be understood that the novel and improved broadhead quiver comprising the present invention is not to be limited to a structure identical in all respects to that illustrated and hereinabove described. It is contemplated that numerous variations or modifications thereof will occur to those skilled in the art, and it is intended to cover herein not only the illustrated structure but also any and all of said modifications or variations as may come within the spirit of said invention, and within the scope of the following claims.

What I claim is:

1. A side quiver for broadhead arrows, comprising: a cylindrical base having an open top; a pair of spaced cylindrical brackets on the outer surface of said base, each having a vertical bore therethrough; a rigid support arm having a pair of parallel depending legs removably insertable in said brackets to separably connect said support arm and base members, said support arm having an angled upper end portion with means thereon for attachment to a wearer's belt, said removable support arm being interchangeably mountable for right handed or left handed archers; a vertical post rotatably mounted in and projecting upwardly above said base; a flat, circular arrowhead holder mounted on and for rotation with said post within said base, said arrowhead holder having a plurality of head-receiving openings therethrough each of which is adapted to removably wedgingly accommodate broadhead arrows having different numbers of blades; and an arrow shaft-retaining unit mounted on and for rotation with said rotatable post above said base, said unit including a disc formed of a pliable material having a plurality of cutouts spaced around its periphery of a size and shape to permit an arrow shaft to be snapped into and removably retained therein, said shaft-retaining unit being rotatable with said post and arrowhead holder to facilitate the selection and withdrawal of a desired arrow.

2. A side quiver for broadhead arrows, comprising: a cylindrical base having an open top, and having a bottom with a hollow stud projecting upwardly from the center thereof to a point intermediate the height of said base; a plurality of spaced, vertical ribs on the base inner surface extending upwardly from the bottom to a point intermediate the height of said base; a pair of spaced cylindrical brackets on the outer surface of said base, each having a vertical bore therethrough; a support arm having a pair of parallel depending legs removably insertable to said brackets to separably connect said support arm and base members, said support arm having an angled upper end portion with a pair of parallel slotted openings through which a wearer's belt can be inserted, said removable support arm being interchangeably mountable for right handed or left handed archers; a vertical post rotatably mounted in said upright base stud and projecting upwardly above said base; a flat, circular arrowhead holder mounted horizontally on and keyed for rotation with said center post and seated on the top of said stud and base ribs, said arrowhead holder having a plurality of head-receiving openings therethrough each of which includes a number of channels radiating outwardly from a central hub, said openings being adapted to removably wedgingly accommodate broadhead arrows having different numbers of blades; means for securing said arrowhead holder in position on said post; and an arrow shaft-retaining unit mounted on and for rotation with said rotatable center post above said base, said unit including a pair of rigid upper and lower discs removably fitted on the upper end of said post and a center disc of larger diameter sandwiched between said upper and lower discs, said center disc being formed of a pliable material and having a plurality of cutouts spaced around its periphery of a size and shape to permit an arrow shaft to be snapped into and removably retained therein, said cutouts being aligned with the head-receiving openings in the arrowhead holder therebelow, said shaft-retaining unit being keyed to said rotatable center post and arrowhead holder for rotation therewith to facilitate the selection and withdrawal of a desired arrow.

3. A side quiver for broadhead arrows, comprising: an annular stationary cup-like base having an open top; a vertical post rotatably mounted in and projecting upwardly from said base; a disc-like arrowhead holder carried by said post within said base for rotation with the post, said disc-like holder having openings therethrough for receiving and for maintaining arrowheads free of contact with the base; a rigid support arm; means detachably connecting an end portion of the support arm to said base; and an arrow shaft-retaining unit mounted on and for rotation with said rotatable post above said base, said unit having a plurality of cut-outs spaced around its periphery of a size and shape to permit an arrow shaft to be snapped into and removably retained therein, said shaft-retaining unit being rotatable with said post and arrowhead holder to facilitate the selection and withdrawal of a desired arrow.

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