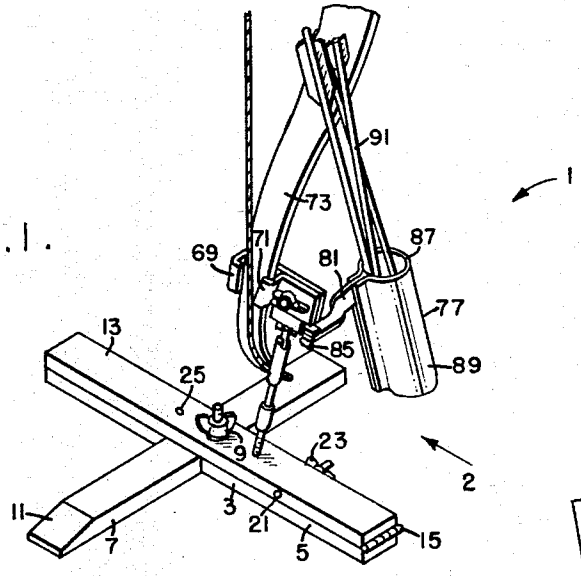
Nov. 22, 1966 D. A. MANDOLARE 3,286,961

STAND, BOW HOLDER AND QUIVER FOR ARCHERY

Filed Aug. 21, 1964 2 Sheets-Sheet 1

FIG. 1.



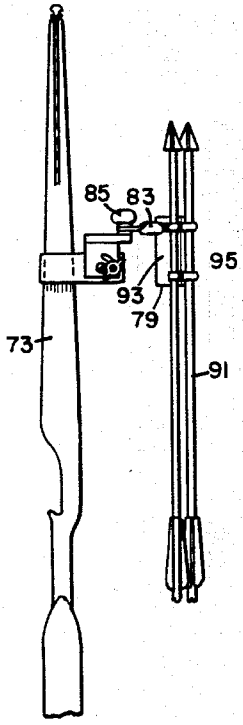


FIG. 3.

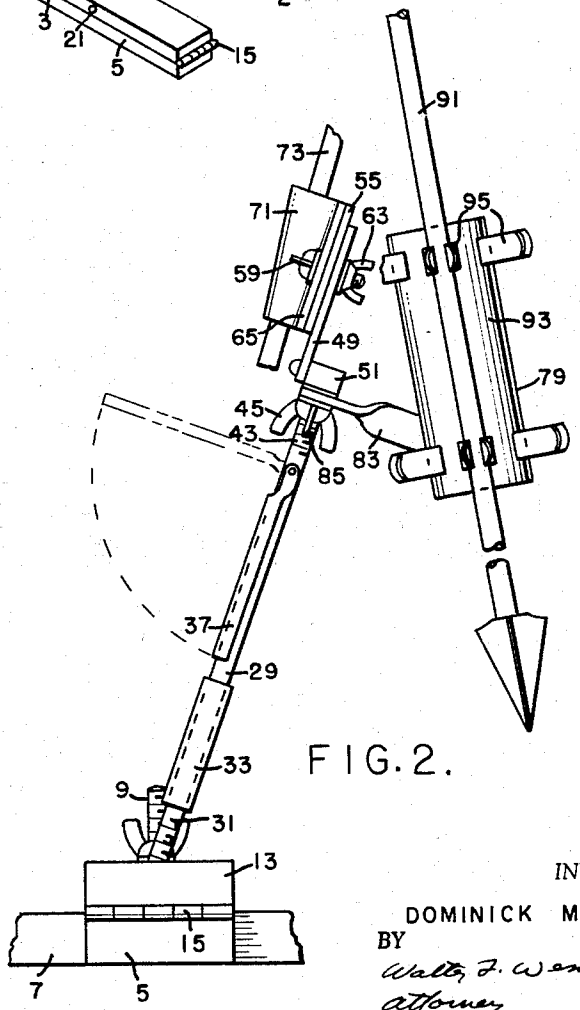


FIG. 2.

INVENTOR.

DOMINICK MANDOLARE

BY

Walter J. Wesenberg Jr.

attorney

Nov. 22, 1966 D. A. MANDOLARE 3,286,961

STAND, BOW HOLDER AND QUIVER FOR ARCHERY

Filed Aug. 21, 1964 2 Sheets-Sheet 2

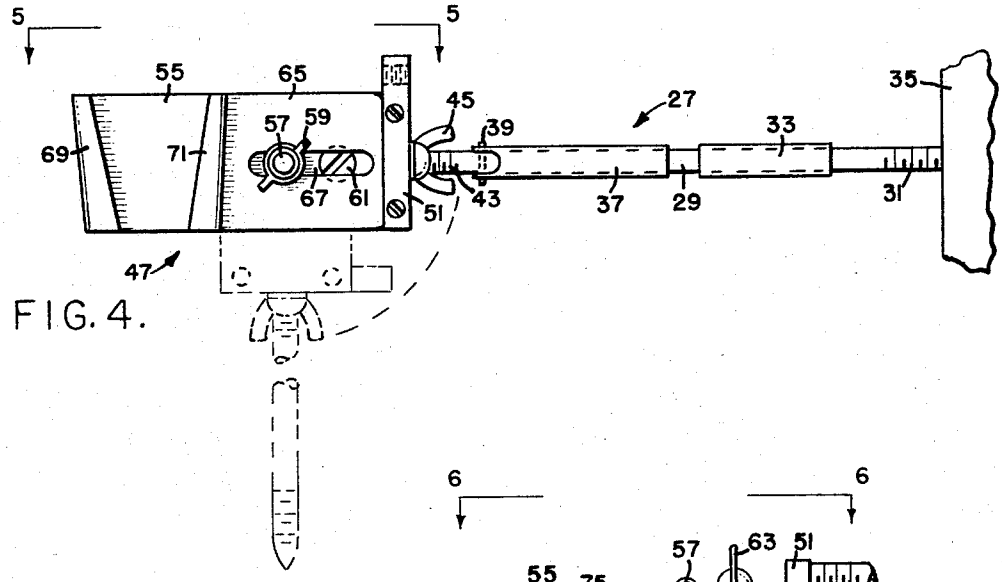


FIG. 4.

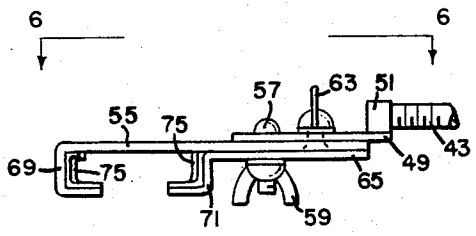


FIG. 5.

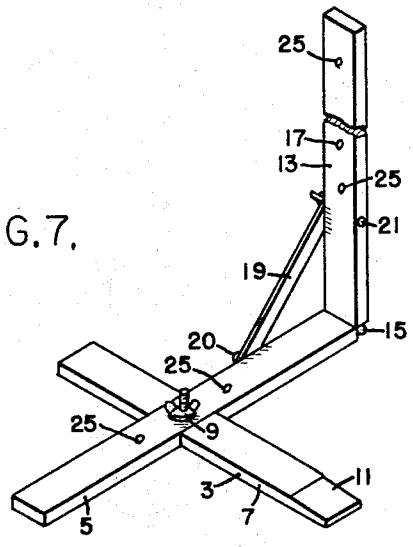


FIG. 7.

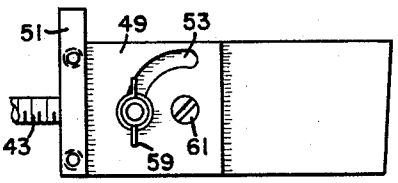


FIG. 6.

INVENTOR.
DOMINICK MANDOLARE
BY
Walter F. Wessendorf Jr.
Attorney

United States Patent Office 3,286,961
Patented Nov. 22, 1966

3,286,961

STAND, BOW HOLDER AND QUIVER FOR ARCHERY

Dominick A. Mandolare, 2 Lawnview Ave., Fort Edward, N.Y.

Filed Aug. 21, 1964, Ser. No. 391,260
13 Claims. (Cl. 248—44)

This invention relates to a stand, bow holder and quiver for archery designed and structurally embodied to satisfy the needs of the bow hunter, tournament shooter or average archer.

A discussion of the prior art to which this invention appertains will serve to point out the problems and how this invention solves the problems. Most conventional bow quivers are supported either by both bow limbs or at the bow center section, thereby hindering the archer in his manipulation of the bow and the release of the arrow as well as the flight of the released arrow. After nocking the arrow, the archer draws back on the bowstring and releases the arrow for flight. A bow is designed and graded in draw weight which is the number of pounds of force needed to pull the bow a given distance such as the length of an arrow. A bow then has structurally embodied a spring constant or draw weight. With the arrow nocked, the bowstring drawn back and then released, the released arrow will travel a determinable distance, speed and trajectory. The entire bow as constructed will determine its spring constant or draw weight. Supporting the quiver by both bow limbs introduces a differential interfering factor with respect to the spring constant of the bow with the result that the draw weight of the bow will vary and cause thereby inaccuracy in arrow travel distance, speed and trajectory. This differential interfering factor is also present when a quiver is supported at the bow center section. Supporting the quiver either by the bow limbs or bow center section does hinder the archer in his handling, carrying, and manipulation of the arrow preparatory to firing or releasing the arrow and in firing the arrow. Moreover, in both kinds of quiver support the quiver cannot be simply and quickly removed. The solution is to provide as is structurally embodied in this invention a bow holder with a quiver carried by the bow holder and as thusly carried does not interfere or hinder the archer in any of the steps from nocking the arrow to release, nor interferes or hinders the archer in his handling or carrying of the bow. In this connection, the invention provides an adjustable V shaped bow holder which will hold any type of bow whether full recurve, semi or straight; and the V shaped bow holder supporting the bow at either its upper limb or lower limb does not introduce the differential interfering factor discussed. Further adjustability features structurally incorporated in the V shaped holder and the quiver carried thereby afford an archer a choice as to positioning of the bow holder and quiver. The bow holder has a sub-assembly of mounting means which affords the archer his choice as to mounting of the bow holder in positions varying from horizontal to vertical when engaged in hunting in the woods by use of an upright tree, fallen tree or log for such purpose. The quiver is of two embodiments: an arrow support cylinder removably holding six arrows for use by the bow hunter and an arrow quiver for use by the tournament or field practice shooter. The sub-assembly of the mounting means can be vertically or horizontally mounted on the collapsible, compact stand structurally embodied for such purpose.

These objects and other objects of the invention should be discerned and appreciated from the detailed specification taken in conjunction with the drawings, wherein like

reference numerals refer to similar parts throughout the several views, in which:

FIG. 1 is a perspective view of the invention showing a bow held in the bow holder which carries the arrow quiver and which is vertically mounted in the stand by sub-assembly of the mounting means;

FIG. 2 is a view in the direction of arrow 2 of FIG. 1 with the arrow support cylinder carried on the bow holder;

FIG. 3 is a view which shows a bow held in the bow holder when the bow is carried in the woods and with the arrow support cylinder carried on the bow holder;

FIG. 4 is a view of the bow holder with its sub-assembly of the mounting means mounted in an upright tree;

FIG. 5 is a view along the line 5—5 of FIG. 4;

FIG. 6 is a view along the line 6—6 of Fig. 5;

FIG. 7 is a perspective view of the assembled stand for either vertical or horizontal mounting of the bow holder by its mounting means.

In FIG. 1, reference numeral 1 generally refers to the invention. Stand 3, shown more discernibly in FIG. 7, comprises two wooden bottom cross pieces 5 and 7 removably joined together by a blind-halved lap joint formed in their middle portions. A screw and wing nut 9 disposed through aligned holes of cross pieces 5 and 7 provides securement. The beveled portion 11 on the end of cross piece 7 allows the archer comfortable foot emplacement thereon when mounting or removing the bow holder, or when emplacing or removing a bow in the mounted bow holder, thereby preventing movement of the stand 3. A wooden vertical piece 13 is hinged to cross piece 5 at 15. Vertical piece 13 similarly has a hole 17 formed therethrough which is aligned with the aligned holes of cross pieces 5 and 7 such that when vertical piece 13 is lying flat upon cross piece 5, securement can likewise be provided by screw and wing nut 9, as is shown in FIG. 1. With reference to FIG. 7, upright positioning of vertical piece 13 is accomplished by a brace 19. Brace 19 is pivotally mounted at 20 on cross piece 5. A slotted portion (not shown) removed from the other end of brace 19 engages the projecting portion of screw 21 transversely disposed through vertical piece 13 with securement provided by wing nut 23. A plurality of screw holes 25 are provided in cross piece 5 and vertical piece 13 for mounting the bow holder in respective vertical or horizontal postion by means of the sub-assembly of the mounting means 27.

The sub-assembly of the mounting means 27 comprises a shank 29 one end 31 of which is threaded for engagement in one of the screw holes 25 of stand 3 or for engagement with an upright tree 35, as shown in FIG. 4, or for engagement with a fallen tree or log. Plastic sleeve 33 is movable downwardly over threaded end portion 31 to prevent same from being exposed when carried in the hunting jacket of the archer. Hand lever 37 pivotally mounted on the upper portion of shank 29 by a transversely disposed pin 39 provides a torque advantage in engaging the threaded end portion 31 when hand lever 37 is opened to its position shown by dashed lines at 41 in FIG. 2. Shank 29 has its other terminal end portion 43 threaded and carries thereon wing nut 45.

Bow holder 47 comprises an L-shaped main plate 49 having a small leg 51 and an arcuate slot 53. A tapped hole formed in small leg 51 is engaged by threaded end portion 49 and retained in position by tightening of wing nut 45 against small leg 51. Plate 55 has two holes formed therethrough respectively aligned with arcuate slot 53 and a hole formed through main plate 49. Plate 55 is carried on main plate 49 by cap screw 57 disposed through the aligned holes of plates 49 and 55 with securement provided by wing nut 59, and by flat-headed

screw 61 disposed through the hole in plate 55 aligned with arcuate slot 53 with securement provided by wing nut 63. Arcuate slot 53 thereby permits 90 degrees of positioning of plate 55 relative to main plate 49. Adjustable plate 65 has formed therethrough slot 67 by which plate 65 is adjustably carried and positioned on screw 57 with securement provided by wing nut 59. Viewing FIG. 4 from the top to the bottom, plate 55 and adjustable plate 65 have respective raised lipped over portions 69 and 71 which converge to form thereby a V shaped holder for removably holding a bow limb of the bow 73 emplaced therein. Cemented, or otherwise suitably secured, to the inside of each of the raised lipped over portions 69 and 71 is foam rubber 75 or other suitable material to protect the bow from scratches or mars.

Arrow quiver 77 shown in FIG. 1 and arrow support cylinder 79 shown in FIGS. 2 and 3 have respective brackets 81 and 83 with holes provided therein to permit either the arrow quiver 77 or arrow support cylinder 79 to be carried on the small leg 51 of main plate 49 by disposing the shank of thumb screw 85 therethrough and engaging the threaded portion of thumb screw 85 with a tapped hole provided in small leg 51. Accordingly, both arrow quiver 77 and arrow support cylinder 79 have the feature of adjustable lateral disposition.

Arrow quiver 77 consists of bracket 81, circular support band 87 and fabric 89. Circular support band 87 is fixed to bracket 81. Fabric 89 is of leather, plastic or other suitable material and is formed as a cylinder and has its bottom end closed to provide and function as a receptacle for the arrows 91. The top, open-cylindrical portion of fabric 89 is suitably secured to circular support band 87.

Bracket 83 of arrow support cylinder 79 is fixed to open cylindrical member 93 having equiangularly disposed retainers 95 carried thereon to removably hold the shafts of arrows 91. Two retainers 95 are utilized to hold the arrow shaft, and twelve retainers 95 are provided to thereby hold six arrow shafts. The retainers 95 are similar in construction to the fuse retainers which hold the cartridge type fuses of fuse boxes and function similarly to removably hold the arrow shafts.

Having thusly described my invention, I claim:

1. A stand, bow holder and quiver for archery; said stand comprising cross pieces, a vertical piece, a brace and screw holes; said bow holder including a sub-assembly of mounting means comprising a shank and said bow holder comprising a main plate, plate and adjustable plate; said quiver comprising a bracket, circular support band and fabric; said cross pieces being joined together, said vertical piece being hinged to one of said cross pieces, said vertical piece being disposed in its upright position by said brace carried on said vertical piece and on one of said cross pieces, said screw holes being formed through said vertical piece and through one of said cross pieces. said shank having a threaded end to engage one of said screw holes to mount said bow holder in a horizontal position on said vertical piece and in a vertical position on said cross piece, said shank being carried by said main plate, said plate being carried on said main plate and being adjustable relative to said main plate, said adjustble plate being carried on said plate and being adjustable relative to said main plate and relative to said plate, said plate and adjustable plate having raised lipped over portions converging to form thereby an adjustable V holder to removably hold a bow limb, said bracket being adjustably carried on said main plate and by said circular support band, said fabric being secured at its top portion to said circular support band, and said fabric being configured as a cylinder with its bottom end closed to provide thereby a receptacle for holding arrows.

2. A stand, bow holder and quiver for archery; said stand comprising cross pieces, a vertical piece, a brace and screw holes; said bow holder including a sub-assembly of mounting means comprising a shank and said bow holder comprising a main plate, plate and adjustable plate; said quiver being in the form of an arrow support cylinder and comprising a bracket, open cylindrical member and retainers; said cross pieces being joined together, said vertical piece being hinged to one of said cross pieces, said vertical piece being disposed in its upright position by said brace carried on said vertical piece and on one of said cross pieces, said screw holes being formed through said vertical piece and through one of said cross pieces, said shank having a threaded end to engage one of said screw holes to mount said bow holder in a horizontal position on said vertical piece and in a vertical position on said cross piece, said shank being carried by said main plate, said plate being carried on said main plate and being adjustable relative to said main plate, said adjustable plate being carried on said plate and being adjustable relative to said main plate and relative to said plate, said plate and adjustable plate having raised lipped over portions conveying to form thereby an adjustable V holder to removably hold a bow limb, said bracket being adjustably carried on said main plate and by said open cylindrical member, said retainers being carried on the surface of said open cylindrical member, and said retainers removably holding arrow shafts.

3. A collapsible stand for use with a bow holder for mounting said bow holder in either vertical or horizontal positions wherein said stand serves as a rigid support member for said bow holder; said stand comprising cross pieces, a vertical piece, a brace and screw holes; said cross pieces being removably joined together by a blind-halved lap joint formed in their middle portions, said cross pieces having formed through their middle portions aligned holes for disposition therethrough of a screw and securement by an engaged wing nut in the horizontal position as a rigid support member of said collapsible stand, said vertical piece being hinged to one of said cross pieces to permit said vertical piece to lie flat upon said cross piece or to be disposed in upright position, said brace being carried on one of said cross pieces and being engaged with said vertical piece in the vertical position of said collapsible stand as a rigid support member, and said screw holes being formed through said vertical piece and one of said cross pieces to permit said bow holder to be mounted in a horizontal position on said vertical piece in its upright position or in a vertical position on said cross piece.

4. A bow holder for holding a bow limb and for carrying a quiver; said bow holder comprising a main plate, plate and adjustable plate; said plate being carried on said main plate and being adjustable relative to said main plate, said adjustable plate being carried on said plate and being adjustable relative to said main plate and relative to said plate, said plate and adjustable plate having raised lipped over portions converging to form thereby an adjustable V holder to removably hold a bow limb and said quiver being adjustably carried on said main plate.

5. A bow holder for holding a bow limb with a sub-assembly of mounting means for mounting said bow holder horizontally in an upright tree or vertically in a fallen tree or log; said bow holder comprising a main plate, a plate and an adjustable plate and said sub-assembly of mounting means comprising a shank; said plate being carried on said main plate and being adjustable relative to said main plate, said adjustable plate being carried on said plate and being adjustable relative to said main plate and relative to said plate, said plate and adjustable plate having raised lipped over portions converging to form thereby an adjustable V holder to removably hold a bow limb, said shank being carried on said main plate and having a threaded end portion for engagement with an upright tree for horizontal mounting of said bow holder or for engagement with a fallen tree or log for vertical mounting of said bow holder.

6. The subject matter as claimed in claim 4, wherein said main plate is L-shaped and has a small leg, said main plate has an arcuate slot formed therethrough aligned with a hole formed through said plate, a screw is disposed

through said aligned hole and arcuate slot affording 90 degrees of adjustable movement of said plate relative to said main plate with securement in such adjusted position being provided by a wing nut tightened on said screw; and wherein said main plate and said plate each have formed therethrough an aligned hole in alignment with a slot formed through said adjustable plate, a screw is disposed through said aligned holes and slot to permit such adjustment of said adjustable plate relative to said main plate and relative to said plate with securement in such adjusted position being provided by a wing nut tightened on said screw.

7. The subject matter as claimed in claim **6**, wherein said quiver carries a bracket, said bracket has a hole formed therethrough and a thumbscrew is disposed through said hole and engaged with a tapped hole in said small leg to thereby permit said quiver to be carried on said small leg with lateral adjustment provided of said quiver.

8. The subject matter as claimed in claim **5**, wherein said main plate is L-shaped and has a small leg, said main plate has an arcuate slot formed therethrough aligned with a hole formed through said plate, a screw is disposed through said hole and arcuate slot affording 90 degrees of adjustable movement of said plate relative to said main plate with securement in such adjusted position being provided by a wing nut tightened on said screw; and wherein said main plate and said plate each have formed therethrough an aligned hole in alignment with a slot formed through said adjustable plate, a screw is disposed through said aligned holes and slot to permit such adjustment of said adjustable plate relative to said main plate and relative to said plate with securement in adjusted position being provided by a wing nut tightened on said screw.

9. The subject matter as claimed in claim **8**, wherein said shank has its other end threaded and carries thereon a wing nut, said other threaded end is engaged with a tapped hole formed in said small leg and said wing nut is tightened against said small leg; and wherein said shank has a transversely disposed pin pivotally mounting a hand

lever to provide upon manipulation of said hand lever torque advantage for such engagement of said threaded end portion with an upright tree, fallen tree or log.

10. The subject matter as claimed in claim **9**, wherein a plastic sleeve on said shank is movable downwardly over said threaded end portion to prevent exposure of said threaded end portion when said shank is being carried in the hunting jacket of an archer.

11. The subject matter as claimed in claim **1**, wherein the end of one of said cross pieces is beveled to permit comfortable foot emplacement thereon to prevent movement of said stand when mounting or removing said bow holder, or when emplacing or removing a bow in said bow holder.

12. The subject matter as claimed in claim **2**, wherein the end of one of said cross pieces is beveled to permit comfortable foot emplacement thereon to prevent movement of said stand when mounting or removing said bow holder, or when emplacing or removing a bow in said bow holder.

13. The subject matter as claimed in claim **3**, wherein the end of one of said cross pieces is beveled to permit comfortable foot emplacement thereon in preventing movement of said stand when mounting or removing said bow holder, or when emplacing or removing a bow in said bow holder.

References Cited by the Applicant

UNITED STATES PATENTS

1,255,557	2/1918	Norman	248—44
2,195,955	4/1940	Hillenbrand	248—226.2
2,575,126	11/1951	Ramsey.	
2,576,360	11/1951	Ramsey.	
2,969,898	1/1961	Ramsey	224—1.5
2,984,277	5/1961	Neff	123—23

RICHARD C. PINKHAM, *Primary Examiner.*

W. R. BROWNE, *Assistant Examiner.*