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BOW STRING HOLDER

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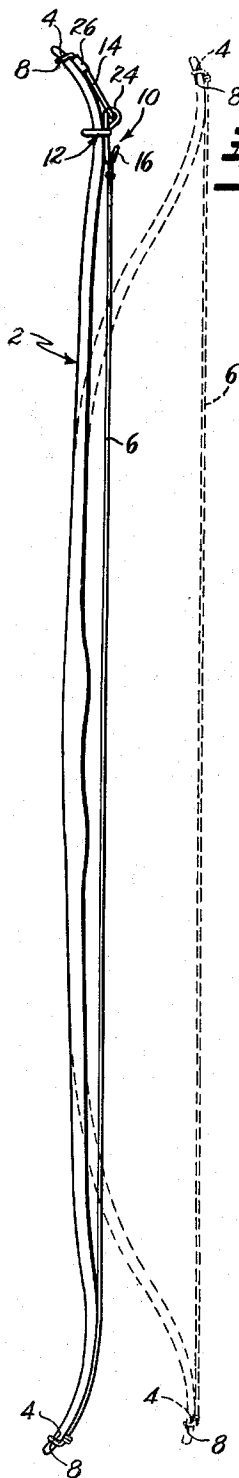


Fig. 1.

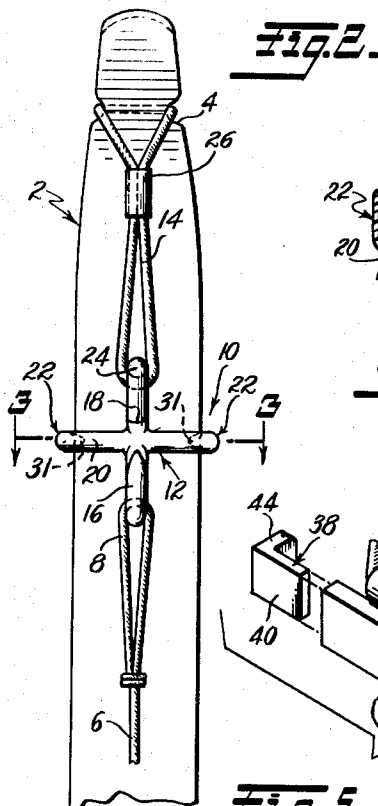


Fig. 2.

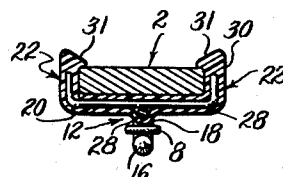


Fig. 3.

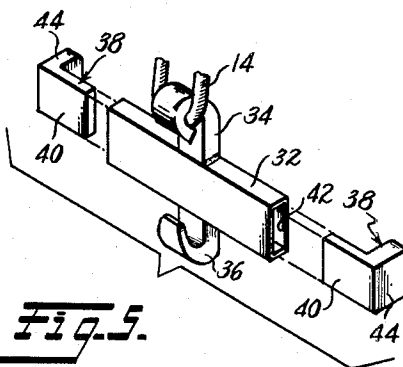


Fig. 5.

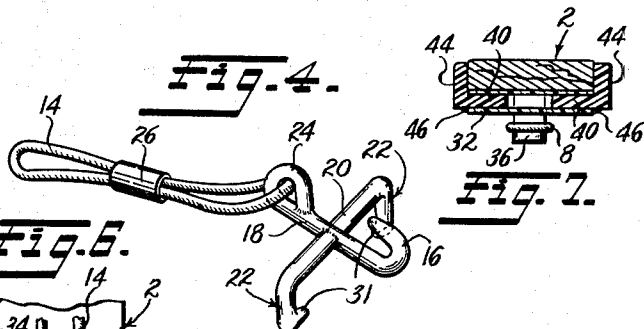


Fig. 4.

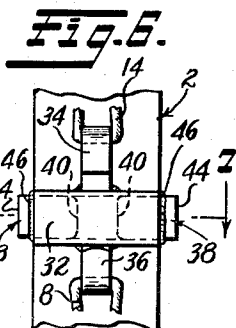


Fig. 6.

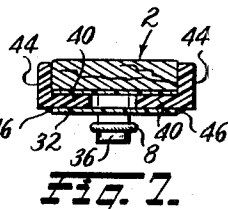


Fig. 7.

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BOW STRING HOLDER

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8 Claims. (Cl. 124—30)

This invention relates to a bow string holder for holding a bow string on an archery bow in a neat and orderly fashion when the bow is "unstrung."

The holder of the present invention comprises generally a member adapted to be positioned against one face of a bow and having projections arranged to engage opposite edges of the bow to restrain the member against lateral displacement. The member is provided with an elastic loop engageable with an end notch of the bow and is also provided with a hook on which the disengaged end loop of the bow string may be engaged. The parts are so dimensioned that the elastic loop holds the bow string under slight tension whereby it is maintained fairly taut against the relaxed bow and is prevented from becoming lost or entangled. The bow string holder of the present invention is preferably provided with at least an outer surface comprising a relatively soft material whereby it will not mar or scratch the finish on a bow.

When the bow is to be put into use, the bow string is unhooked from the holder and the holder is completely removed from the bow whereupon the bow string may be engaged in the end notch of the stressed bow, ready for use. The bow string holder, therefore, does not constitute an impediment during use of the bow but is completely removed therefrom.

It is therefore an object of this invention to provide a bow string holder for holding a bow string under slight tension and neatly against the bow when the latter is unstrung.

Another object of the invention is to provide a bow string holder of the type set forth that is completely removable from the bow and does not involve special bow construction.

Still another object of the invention is to provide a bow string holder readily adapted for use with bows of any width.

A further object of the invention is to provide a bow string holder engageable with the bow but of such construction as to not mar the finish thereof.

A still further object of the invention is to provide a bow string holder as described but which is simple and economical in construction, yet efficient and reliable in operation.

Additional objects and advantages will become apparent to those skilled in the art as the description proceeds with reference to the accompanying drawings, wherein:

Fig. 1 illustrates, in full lines, an unstrung bow with the bow string holder of the present invention in place thereon;

Fig. 2 is an enlarged view of a portion of the upper end of Fig. 1 as viewed from the right side thereof;

Fig. 3 is a transverse sectional view taken substantially along the line 3—3 of Fig. 2;

Fig. 4 is a perspective view of the bow string holder of the present invention separated from the bow;

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Fig. 5 is an exploded perspective view of a modified form of bow string holder;

Fig. 6 is a fragmentary front view of the holder of Fig. 5 shown in use with a bow; and

Fig. 7 is a transverse sectional view taken substantially along the line 7—7 of Fig. 6.

Fig. 1 shows an archery bow 2 having the usual end notches 4 and a bow string 6 provided with end loops 8 engageable in the end notches 4 of the bow when the bow is strung, as shown in dotted lines. When not in use it is desirable that the bow 2 be relieved of stresses by disengaging at least one end loop 8 of the string 6 from its end notch 4. When the bow is thus unstrung it assumes generally the position shown in full lines in Fig. 1 and it is desirable that the string 6 be held in some manner so that it does not become completely disengaged from the bow and lost or entangled with itself or other objects. To accomplish this end the bow string 6 is held in a neat, orderly fashion against the bow 2 by a bow string holder designated generally by numeral 10 in Fig. 1. The bow string holder 10 comprises a member 12 positioned against a face of the bow and provided with an elastic loop 14 engageable in the end notch 4 from which the string 6 was removed. The member 12 is further provided with an open hook 16 on which the disengaged end loop 8 of bow string 6 is engaged. The parts are so dimensioned that the loop 14 holds the bow string 6 under slight tension to assure its retention snugly against the bow, as shown.

Obviously when it is desired to use the bow, the holder 10 may be completely disengaged from both the string 6 and the bow 2 whereupon the bow string may be re-engaged with notch 4 to stress the bow and render the same ready for use as shown in dotted lines in Fig. 1.

In the form of the invention shown in detail in Figs. 1 through 4, the member 12 comprises a pair of crossed arms 18 and 20. The arm 20 is provided at its ends with transverse projections 22 spaced apart such a distance that they loosely engage opposite side edges of the bow 2 whereupon the member 12 may slide freely along the bow 2 but is restrained against lateral displacement thereon. The elastic loop 14 passes through and is held by an eyelet or loop 24 at the upper end of arm 18. The elastic loop 14 may be a rubber band of suitable dimension or may be any other elastically stretchable material, such as a fabric-covered resilient filament of any kind. Preferably the loop 14 is provided with a clip 26 intermediate its ends to define a small loop at the upper end thereof engageable with notch 4 and whereby the elastic loop will not slip downwardly along the bow. The hook 16 previously referred to, is formed at the lowermost end of the arm 18 substantially directly opposite the loop 24. Loop 24 is shown completely closed but could be in the form of a nearly-closed hook, if desired. If formed as a hook, the mouth should be sufficiently restricted so that elastic loop 14 could not slide freely therethrough.

As shown in Fig. 3, the arms 18 and 20 of the member 12 may be formed of core material comprising metal rods or wires 28 and the member 20 may be covered in its entirety with a layer of soft plastic or the like material 30. The rods or wires 28 may be welded or soldered together or they may be held in the described relationship solely by the covering material 30. While it is preferred that the member 12 be provided with a soft surface whereby the finish of the bow 2 will not be marred or scratched, the provision of such a coating or soft surface is not an essential or critical feature of the invention.

Fig. 3 also shows retaining hooks 31 formed at the ends of lateral projections 22 for holding the member 10 against inadvertent outward displacement. The hooks 31

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may be formed from the material 30, as shown, or the rod 28 may be also bent to the hook shape. The hooks 31 may also be provided when the holder is made of a single material or in the form of Fig. 5, to be described. The hooks 31 may be short, as shown, so that they may be "snapped" over the edges of the bow 2 or they may be longer, and even rigid, whereupon the holder may be slipped over the end of the bow.

Figs. 5 through 7 illustrate a modified form of the invention. In this form a transverse tubular member 32 is of a length sufficient to span the widest bow with which it is likely to be used. The tubular member 32 is preferably of plastic material although it may be of any material that can be readily severed or cut to the desired length. Intermediate its ends the member 32 is provided, on one side, with a loop portion 34 (shown as a nearly-closed hook) adapted to engage and retain the elastic loop 14 therein. Directly opposite the loop portion 34 is a hook member 36 adapted to engage and hold the end loop 8 of the bow string 6, as described in connection with Figs. 1 through 4. The elements 34 and 36 may be of plastic or any other suitable material cemented to the member 32, or fastened thereto in any other suitable manner. If desired, they may be initially formed integral with member 32 or as the ends of a single bar.

End elements 38 of any suitable material are each formed to a generally L shape. Each of the end elements 38 is provided with a leg 40, complementary in sectional shape to the interior 42 of the tubular member 32 and telescopically receivable therein. The other legs 44 of the end elements 38 extend transversely of the legs 40 and member 32, as shown. To render the modification of Fig. 5 ready for use, the user cuts the ends of tubular member 32 so that the member is of a length substantially equal to the transverse width of the bow with which the holder is to be used. Thereafter the legs 40 of end elements 38 are inserted in the ends of the tubular member 32 and cemented or otherwise secured therein. The transverse portions or projections 44 thereupon become the retaining means for engaging the edges of the bow, as described in connection with Figs. 1 and 2, and the holder is ready for use. Figs. 6 and 7 show the holder of Fig. 5 after it has been cut to size and assembled by the use of cement 46 or the like.

While a limited number of specific embodiments of the invention have been shown and described herein, it is to be understood that other forms and modifications may be resorted to within the scope of the appended claims.

I claim:

1. A bow string holder for retaining a bow string in position along a bow when the bow is unstrung, comprising; a member adapted to extend transversely across a bow and having projections at its ends extending laterally of said member for engaging opposite edges of the bow to hold said member against transverse displacement relative to said bow, an elastic loop secured to said member for removably engaging the end notch of a bow, and hook means secured to said member for removably receiving the end loop of the bow string.

2. A bow string holder as defined in claim 1 including

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holding means on said member for holding said elastic loop, said holding means and said hook means being mounted on said member substantially midway between said projections.

3. A bow string holder as defined in claim 2 wherein said holding means and said hook means extend in opposite directions from said member.

4. A bow string holder for retaining a bow string in position along a bow when the bow is unstrung, comprising; a pair of arms secured together in crossed relation, the ends of one of said arms comprising lateral projections for engaging opposite edges of the bow, the ends of the other arm being formed, respectively, as holding means for an elastic loop and as a hook for an end of the bow string, and an elastic loop held by said holding means.

5. A bow string holder as defined in claim 4 wherein said arms comprise metal rods and wherein said entire holder is covered with a layer of soft plastic material.

6. A bow string holder for retaining a bow string in position along a bow when the bow is unstrung, comprising; a member adapted to extend transversely across a bow and including an open-ended tubular member of severable material, holding means for an elastic loop secured to said member on one side thereof and substantially midway between the ends thereof, an elastic loop held by said holding means, a bow string hook secured to said member opposite said holding means, and a pair of end elements of generally L-shape, each having one leg complementary in shape to the interior of said tubular member whereby said tubular member may be cut to a length equal to the width of the bow and said legs of said elements secured therein with the other legs of said elements extending transversely of said member in position to engage opposite edges of said bow.

7. A bow string holder for retaining a bow string in position along a bow when the bow is unstrung, comprising; a member adapted to extend transversely across a bow and including an open-ended tubular member of severable material, holding means for an elastic loop secured to said member on one side thereof and substantially midway between the ends thereof, an elastic loop held by said holding means, a bow string hook secured to said member opposite said holding means, and a pair of end elements of generally L-shape, each having one leg extending into and adhesively secured in an end of said member, the other legs of said end elements extending transversely of said member and adapted to engage opposite edges of the bow.

8. A bow string holder as defined in claim 1 wherein said lateral projections are mounted on said member for adjustment toward and away from each other whereby to adapt said holder to bows of different width.

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