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WRIST DRAW FOR ARCHERS

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Fig-1

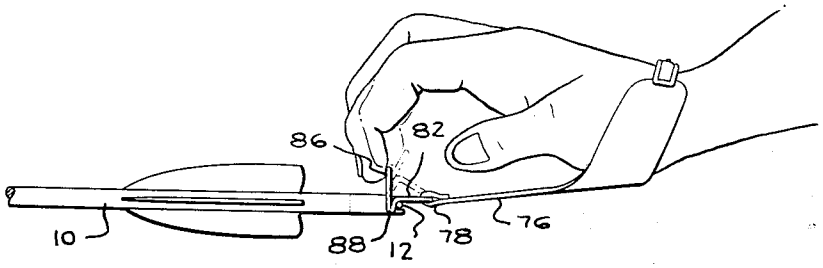


Fig-2

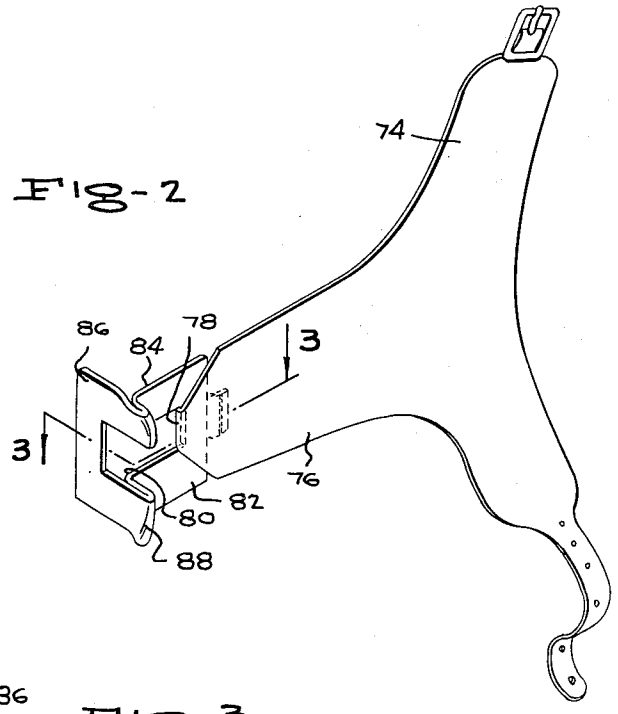
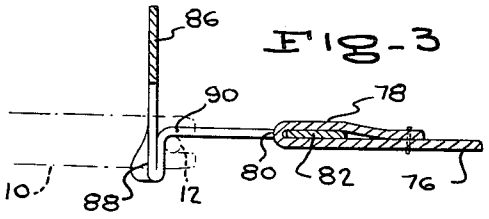


Fig-3



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WRIST DRAW FOR ARCHERS

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6 Claims. (Cl. 124—35)

This invention relates generally to new and useful improvements in the art of archery. More particularly, the invention has reference to a wrist attachment which is so designed as to facilitate the drawing of a bow string, and which is further adapted to protect the fingers when the bow string is released.

A primary object of the present invention is to provide a wrist attachment for use in drawing a bow string whereby the pull of the bow string is directly transmitted to the wrist and the arm muscles while the control of the bow string and arrow, for easy and accurate release of the arrow, is maintained at the finger tips.

Another important object of the present invention is to provide a wrist draw attachment which includes a flexible member that is connected at one end by a wrist engaging means to the wrist and which is disposed over the palm of the archer's hand so as to extend from the wrist to the finger tips and which has a rigid member on the opposing end, the rigid member being hingedly attached to the flexible member and being disposed transversely thereof so as to have lateral portions, which extend in opposite directions, one of the portions defining a shoulder behind which the bow string is engaged and such portion having a slot for receiving the nock of the arrow, and the other portion defining a finger projection, which is adapted to be engaged by the finger tips of the archer for rocking the rigid member or element about the flexible member to move the shoulder out of engagement with the bow string and release the arrow.

Another object is to provide a device of the character stated that can be manufactured at a very low cost, and can be used either with or without a conventional archers' or shooters' glove.

Still another object is to provide a device as stated in which only a very light touch of the finger will hold a great amount of weight, with the fingers being reduced primarily to means for the holding of a point of friction between the material of the device and the bow string.

Other objects will appear from the following description, the claims appended thereto, and from the annexed drawing, in which like reference characters designate like parts throughout the several views, and wherein:

Figure 1 is a top plan view of the device;

Figure 2 is an enlarged perspective view of the device of Figure 1; and

Figure 3 is an enlarged, detail sectional view substantially on line 3—3 of Figure 2.

Referring now more particularly to the accompanying drawing, it is to be noted that the wrist attachment essentially comprises a pressure-transferring, flexible strip 76, which is disposed in a position so as to overlie the palm of the archer and which is of a length to extend from the wrist to a point adjacent the finger tips of the archer's hand. The flexible strip or element is attached to the archer's wrist by a wrist engaging means 74, which may be in the form of an adjustable strap and buckle assembly, that extend laterally in opposite directions

from the one end of the flexible member or strip 76, as shown clearly in Figures 1 and 2.

The other end of the strip 76 has a rigid element hingedly attached thereto and which is formed with lateral portions, that extend in opposite directions, transversely to the strip, which overlies the palm of the archer's hand, one of the portions being formed as a hook or constituting a shoulder, behind which the bow string engages, while the other portion defines a laterally projecting finger projection, which is adapted to be engaged by the fingers so as to move the rigid element about the flexible strip and release the bow string.

The rigid element is designed to hook onto the string in a manner that is not yielding, and that is independent of the fingers, while still being so arranged that a small pressure on the rigid element will cause it to release the string.

The flexible, generally T-shaped body includes the wrist engaging means or band 74 integral medially between its ends with the pressure-transferring strip 76 having its length substantially perpendicular to the length of the wrist band. At its distal end, strip 76 has a loop 78 extending through an elongated, centrally disposed opening 80 formed in a one-piece, metal boot 82, which defines the rigid element. Boot 82 includes a proximal leg 84 of approximately rectangular, flat formation lying substantially in the plane of the strip 76 and constituting the part of the boot to which the strip is directly connected. The boot also includes a distal portion 86 forming a finger piece as shown in Figure 1 and provided at its inner end with a folded portion 88 that defines a shoulder 90 bearing against the bow string. Opening 80 extends continuously from a location adjacent the inner end of the leg 84, through the location of the juncture between the legs and through the folded part 88, terminating adjacent the free end of the leg 86, thus providing a clear space adapted to receive the nock of the shaft 10. It is to be noted that the portion 86 extends laterally outwardly from the leg portion 84, while the portion 88 extends laterally inwardly, the portions 86 and 88 constituting a transverse or cross portion on the leg portion 84 and being provided at the outer end thereof. This device is used by engaging the bow string in back of the flange or shoulder 90, after which, with the arrow nock properly positioned, the string is drawn. To release the bow string, one merely exerts a light pressure against the free end of the leg 86, tending to swing the same from its full to its dotted line position of Figure 1, thus releasing the bow string.

One, in effect, "squeezes" the leg 86 in the manner of a trigger of a gun, thus promoting maximum accuracy in respect to the shooting of the arrow.

While the preferred embodiment of the present invention has been illustrated and described herein, other forms may be realized, so that limitation is sought only in accordance with the scope of the appended claims.

What is claimed is.

1. An archer's wrist attachment for use in drawing a bow string comprising a flexible strip of a length to extend between the finger tips and wrist of a user and of a width to lie within the confines of the palm of the hand of the user, said strip having opposing ends, wrist engaging means on one of the ends to attach the strip to the wrist in a position so that it overlies the palm of the hand and extends between the wrist and the finger tips of the archer, and a rigid bow string engaging piece on the opposing end of said strip, said piece having an opening adapted to receive the nock of an arrow and having a lateral flange adapted to extend at least partially about the bow string and a finger engaging extension projecting from the flange and adapted to be engaged

by the finger tips so as to rock the flange out of engagement with the bow string for releasing the arrow.

2. An archer's wrist attachment for use in drawing a bow string comprising a flexible strip having opposing ends, wrist engaging means on one end of the flexible strip to attach the strip to the wrist of an archer in a position so that it overlies the palm of the hand and extends between the wrist and the finger tips of the archer, a rigid element hingedly secured to the opposing end of the strip and having a lateral flange providing a shoulder which bears against the bow string to exert a pressure thereon, said flange having a slot for receiving the nock of an arrow which engages the bow string, and a finger piece projecting from the flange and adapted to be engaged by the finger tips of the archer for moving the flange out of engagement with the bow string so as to release the arrow.

3. An archer's wrist draw attachment for use in drawing and releasing a bow string comprising a member having opposing ends, wrist engaging means on one end of the member to attach the member to the wrist of an archer in a position so that it overlies the palm of the archer's hand, said member being of a length to extend between the wrist and the finger tips of the archer, a rigid element arranged transversely of the member at the other end thereof, means hingedly attaching said element to said end of the member, said element having lateral portions extending laterally in opposite directions of the member, as the member overlies the palm of the archer's hand, one of said portions defining a shoulder against which the bow string rests as it is pulled rearwardly from the bow with the member transferring the pull to the wrist and arm muscles of the archer, said shoulder having a slot for receiving the nock of an arrow which engages the bow string, and the other of said portions defining a finger projection which is adapted to be engaged by the finger tips of the archer for rocking the element about the member to move the shoulder out of engagement with the bow string and release the arrow.

4. An archer's wrist draw attachment for use in drawing and releasing a bow string comprising an elongated flexible member having opposing ends, wrist engaging means on one end of the member for attaching the member to the wrist of an archer in a position so that it overlies the palm of the archer's hand, said member being of a length to extend between the wrist and the finger tips of the archer, a rigid, substantially T-shaped element hingedly connected to the other end of the member and including a leg portion hingedly connected at one end to the other end of the member and a transverse portion on the other end of the leg portion, said transverse portion including a shoulder having a slot for receiving the nock of an arrow and behind which the bow string is engaged so as to be pulled rearwardly from the bow and further including a finger projection, which extends laterally outwardly and which is adapted to be engaged by the finger tips of the archer for rocking the rigid element about the member to move the shoulder out of engagement with the bow string and release the arrow.

5. An archer's wrist draw attachment for use in drawing and releasing a bow string comprising an elongated flexible member having opposing ends, wrist engaging means on one end of the member for attaching the member to the wrist of an archer in a position so that it overlies the palm of the archer's hand, said member being of a length to extend between the wrist and the finger tips of the archer, a rigid, substantially T-shaped element hingedly connected to the other end of the member and including a leg portion hingedly connected at one end to the other end of the member and a transverse portion on the other end of the leg portion, said transverse portion including a shoulder having a slot for receiving the nock of an arrow and behind which the bow string is engaged so as to be pulled rearwardly from the bow and further including a finger projection, which extends laterally outwardly and which is adapted to be engaged by the finger tips of the archer for rocking the rigid element about the member to move the shoulder out of engagement with the bow string and release the arrow, said leg portion having an opening formed transversely therethrough adjacent its inner end and the flexible member having a loop on its end, which is passed through the opening for hingedly attaching the rigid element to the flexible member.

6. An archer's wrist draw attachment for use in drawing and releasing a bow string comprising an elongated flexible member having opposing ends, wrist engaging means on one end of the member for attaching the member to the wrist of an archer in a position so that it overlies the palm of the archer's hand, said member being of a length to extend between the wrist and the finger tips of the archer, a rigid, substantially T-shaped element hingedly connected to the other end of the member and including a leg portion hingedly connected at one end to the other end of the member and a transverse portion on the other end of the leg portion, said transverse portion including a shoulder having a slot for receiving the nock of an arrow and behind which the bow string is engaged so as to be pulled rearwardly from the bow and further including a finger projection, which extends laterally outwardly and which is adapted to be engaged by the finger tips of the archer for rocking the rigid element about the member to move the shoulder out of engagement with the bow string and release the arrow, said rigid element being formed in one piece with the transverse portion bent at right angles to the leg portion and extending laterally in opposite directions therefrom and being disposed substantially in co-planar relationship.

References Cited in the file of this patent

UNITED STATES PATENTS

2,000,015	Flury	May 7, 1935
2,084,634	Flury	June 22, 1937
2,769,179	Love	Nov. 6, 1956

FOREIGN PATENTS

446,555	France	Dec. 9, 1912