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W. D. RINGEL
THUMB GRIP ARCHERY BOW

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Fig. 1.

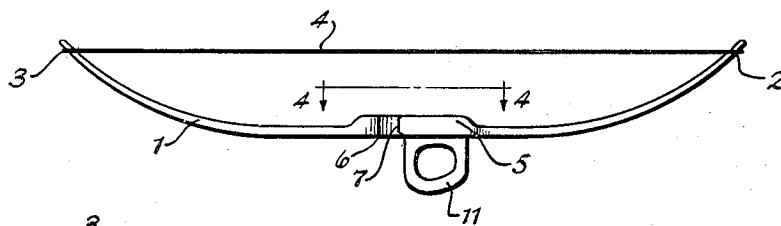


Fig. 2.

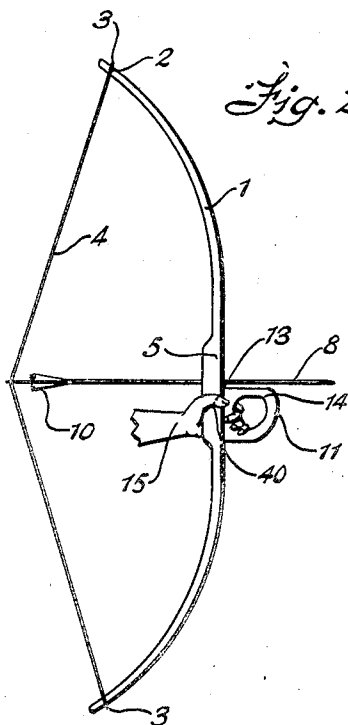


Fig. 3.

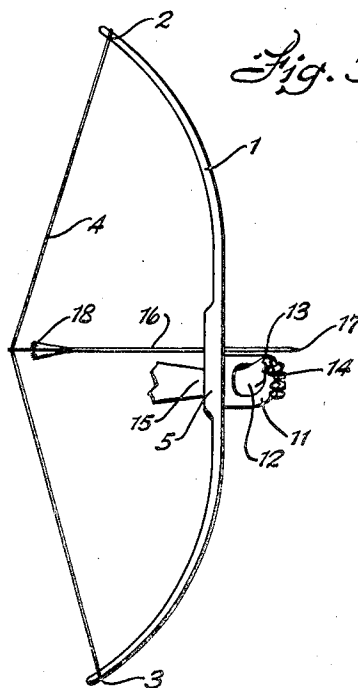
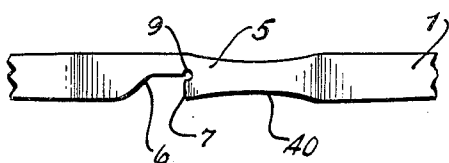


Fig. 4.



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THUMB GRIP ARCHERY BOW

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4 Claims. (Cl. 124—24)

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This invention relates to improvements in archery bows.

An object of the invention is to provide an improved thumb grip archery bow having two handle portions, one adapted to be grasped when shooting regulation length arrows, and the other to be grasped when shooting shorter arrows.

Another object of the invention is to provide an improved thumb grip archery bow having the usual handle formed at the central portion of the bow, and an additional handle formed with the main bow handle to extend forwardly thereof for shooting arrows of shorter length.

A further object of the invention is to provide an improved archery bow having interconnected spaced handles or gripping portions, a rest for supporting an arrow while shooting the same, and a feather relief groove for permitting the feathers on the arrows to pass the bow handle without engaging or rubbing on the handle, thereby retaining the arrows and their feathered ends in perfect condition to preserve an even flight when being shot.

Another object of the invention is to provide an improved archery bow construction which will provide two spaced interconnected handles for respectively shooting regulation length arrows and short arrows which are approximately five inches shorter in length than the regulation length arrows.

Another object of the invention is to provide an improved thumb grip archery bow having two separate handle portions which will be highly efficient in operation and relatively inexpensive to manufacture and produce.

Other objects will appear as the description proceeds.

In the accompanying drawings which form a part of this application:

Figure 1 is a side elevation of the improved thumb grip archery bow when strung;

Figure 2 is a side elevation of the improved thumb grip archery bow showing the same grasped by the main handle, and a regulation arrow shown fully drawn;

Figure 3 is a side elevation of the improved thumb grip archery bow showing the same grasped by the forward or auxiliary handle while shooting a short arrow being shown fully drawn, and

Figure 4 is a view taken on the line 4—4 of Figure 1.

Like characters of reference are used throughout the following specification and the accom-

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panying drawings to designate corresponding parts.

In carrying out the invention, there is provided an improved thumb grip archery bow whose body portion 1 will be made from any desired material, either in one piece or of laminated construction.

Regulation string receiving and supporting grooves 2 will be formed about the opposite ends of the body portion 1 of the bow, and will receive the loops 3 formed at the opposite ends of the bow string 4.

The main handle 5 of the bow will be formed approximately centrally of the length of the body portion 1, and the arrow supporting side or left hand side as viewed when holding the bow in position to shoot an arrow, will be somewhat reduced as at 6 to provide an arrow support 7 upon which the arrow 8 will rest while being drawn and while being shot. The main handle 5 of the bow 1 will be shaped or reduced as at 40 to provide a form fitting thumb gripping surface immediately below the arrow support 7 and on the opposing side, whereby the thumb of the hand will definitely seat within said form fitting surface to provide a positive grip upon the said handle.

A groove 9 will be formed in the body at the inner end of the support 7 to form a feather relief passage to permit the feather on the bow side of the arrow to pass freely through said groove or passage 9 while being shot, thereby preserving the arrow feathers 10 in perfect condition to insure a straight and non-wobbling course through the air when the arrow is shot from the bow to the target (not shown).

In Figure 3 of the drawings, there is illustrated the improved thumb grip bow with a forwardly extending or auxiliary handle 11 grasped by the hand 12 with the thumb 13 of the hand received in the reduced thumb engaging portion 14 of the auxiliary handle 11, and with the side of the main bow handle 5 in contact with the wrist 15 adjacent the hand. The arrow 16 as shown in Figure 3 is approximately five inches shorter than the regulation length of arrows shown in Figure 2 of the drawings and is provided with the usual head 17 and feathers 18.

From the foregoing description it will be seen that both the main handle 5 and the auxiliary handle 11 are grooved to provide a form fitting thumb grip portion for securely holding the bow when shooting.

It will further be seen that a highly efficient form of archery bow having a main handle and an auxiliary handle will have been provided,

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whereby regulation length arrows and short length arrows may be shot by the same bow by using the proper handle while shooting.

While the preferred embodiment of the instant invention has been illustrated and described, it will be understood that it is not intended to limit the scope of the invention thereto, as many minor changes in detail of construction may be resorted to without departure from the spirit of the invention.

Having thus described my invention what I claim is new and desire to secure by Letters Patent of the United States is:

1. A thumb grip archery bow having a body portion, string receiving grooves formed at the opposite ends thereof, a raised enlarged portion disposed on the body section midway of the grooved ends, an arcuate handle extending forwardly of said enlarged portion and formed integrally therewith, a central opening in said handle for forming thumb gripping areas on said handle, a recess in the side of the enlarged portion, and an arcuate notch in said recessed portion.

2. An archery bow comprising a body portion, an enlarged portion formed medially of the body portion, a forwardly projecting arcuate centrally open handle formed integrally with the enlarged portion, an angular arrow receiving recess formed in the side of the enlarged portion and having an inner side wall, oppositely disposed top and bottom walls, and an arcuate feather groove disposed at the angular juncture of the side wall and bottom wall.

3. An archery bow comprising a body portion, an enlarged portion formed medially of the body portion, an arcuate handle projecting forwardly

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of the body portion, and formed integrally with the enlarged portion, a central opening in said handle, finger grip sections disposed on the front wall of the handle, and means disposed in the enlarged portion above the handle for supporting an arrow.

4. An archery bow comprising a body portion, an enlarged portion formed medially of the body portion, an arcuate handle projecting forwardly of the body portion, and formed integrally with the enlarged portion, a central opening in said handle, finger grip sections disposed on the front wall of the handle, means disposed in the enlarged portion above the handle for supporting an arrow, said means including an angular recess formed in the side of the enlarged portion and having an inner side wall and opposing top and bottom walls, the top wall sloping upwardly and outwardly, and an arcuate groove disposed in the enlarged portion and communicating with the angular recess at the juncture of the side wall and bottom wall.

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