Oct. 29, 1963 J. C. RAMSEY 3,108,725

ARROW HOLDER FOR BOWS

Filed Feb. 17, 1961 3 Sheets-Sheet 1

FIG. 1

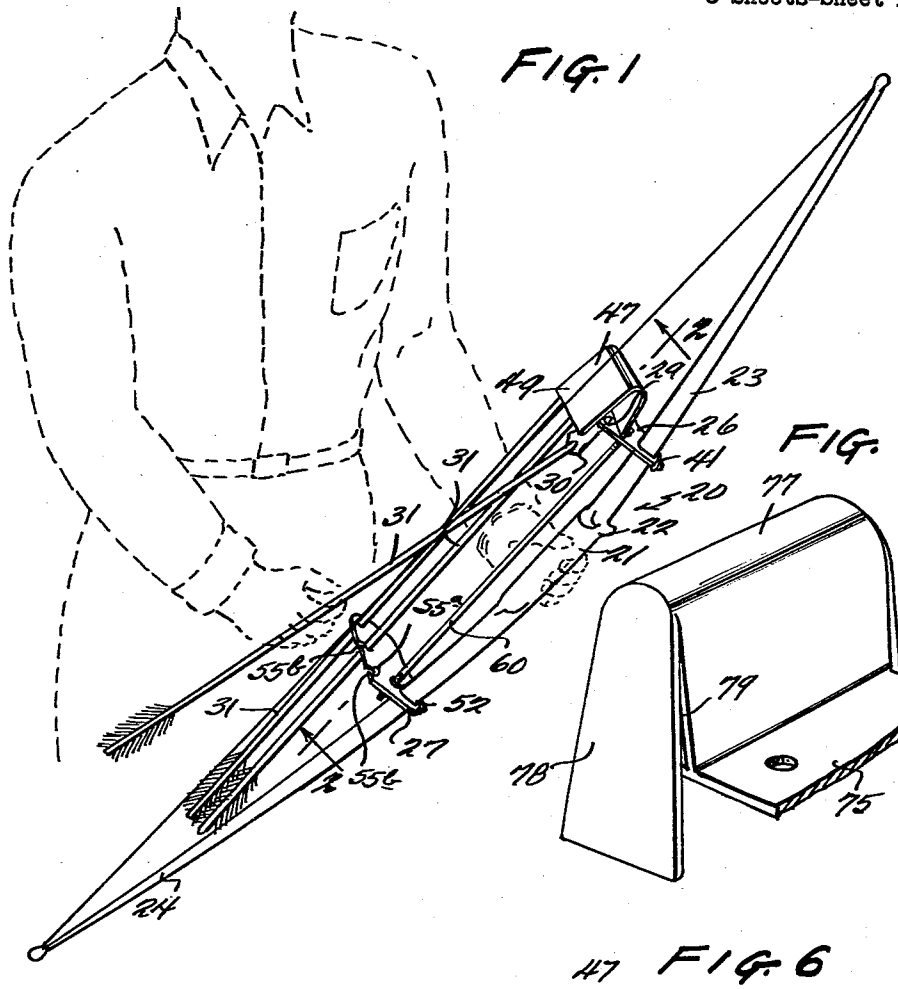


FIG. 7

FIG. 6

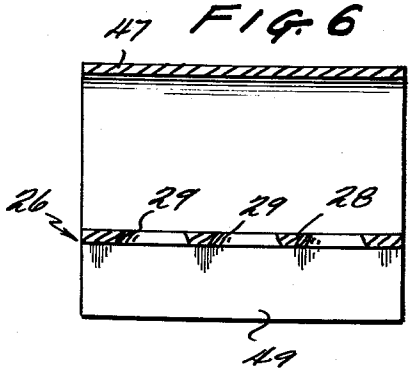
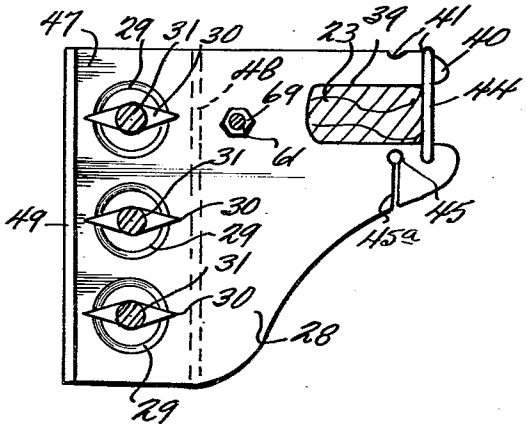


FIG. 5



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Oct. 29, 1963 J. C. RAMSEY 3,108,725

ARROW HOLDER FOR BOWS

Filed Feb. 17, 1961 3 Sheets-Sheet 2

FIG. 2

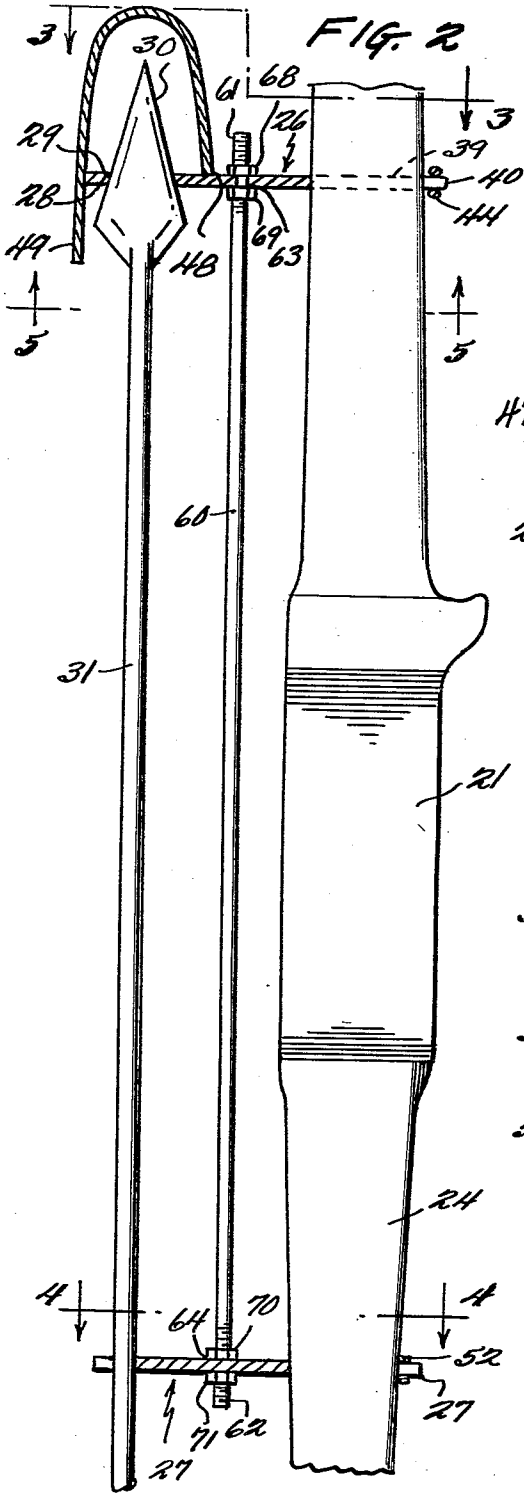


FIG. 3

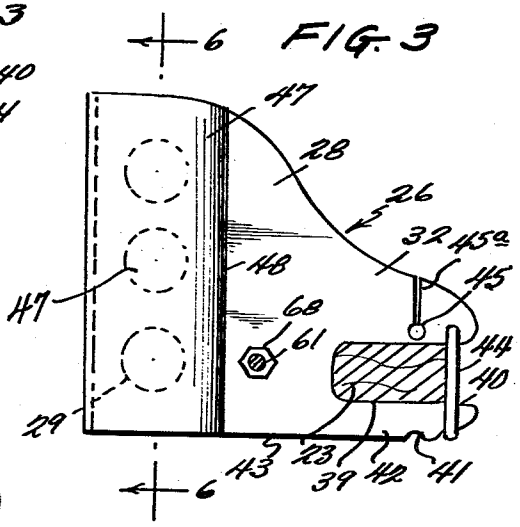
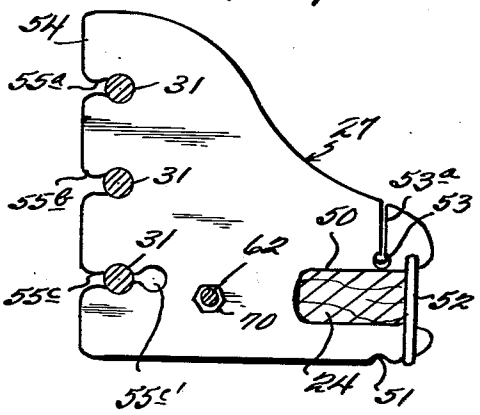


FIG. 4



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Oct. 29, 1963 J. C. RAMSEY 3,108,725

ARROW HOLDER FOR BOWS

Filed Feb. 17, 1961 3 Sheets-Sheet 3

FIG. 8

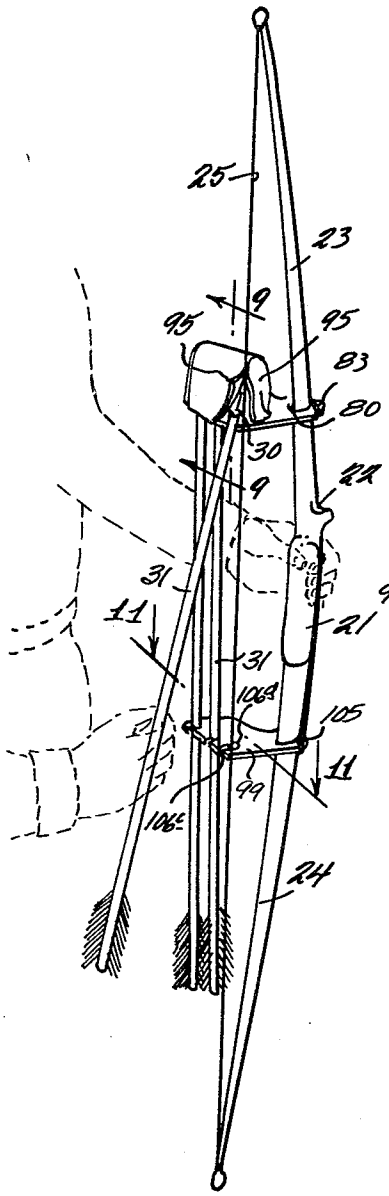


FIG. 9

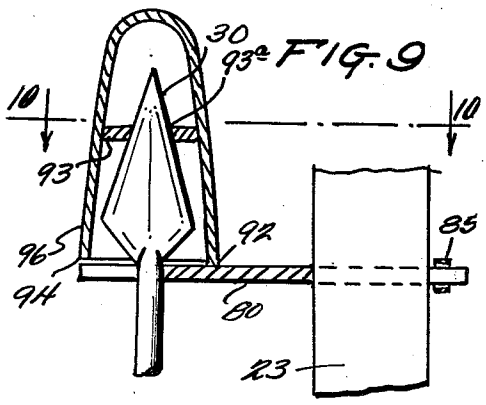


FIG. 10

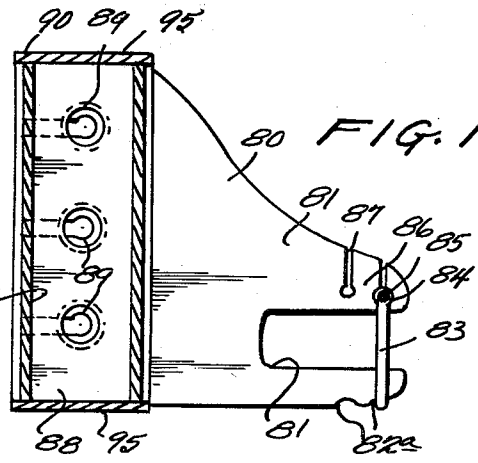
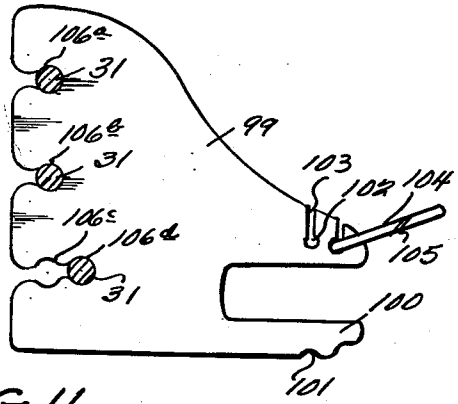


FIG. 11



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3,108,725

ARROW HOLDER FOR BOWS

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Filed Feb. 17, 1961, Ser. No. 90,096
1 Claim. (Cl. 224—1)

This invention relates to an arrow holder and more particularly to an arrow holder of the type supported on the bow.

A primary object of this invention is the provision of an arrow holding device supported on a bow to maintain a plurality of arrows in a readily accessible position for instant use.

An additional object of the invention is the provision of a device of this character which is releasably secured to the bow and can be removed when desired.

Still another object of the invention is the provision of a device of this character which can be readily and easily secured to the bow or removed therefrom without the necessity of removing the string from the bow or removing the arrows from the holder.

A still further object of the invention is the provision in an arrow holding device of this character of means for protecting the arrow point from accidental damage resulting from handling by the archer.

Still another object of the invention is the provision of an arrow holding device of this character which can be secured to the bow without the use of tools and by an unskilled operator.

A still further object of the invention is the provision of a device of this character which is inexpensive to manufacture, relatively easy to attach and detach, and which is effective in holding and protecting arrows in an easily accessible position.

Still other objects will in part be obvious and in part be pointed out as the description of the invention proceeds and shown in the accompanying drawings wherein:

FIGURE 1 is a perspective view of one form of arrow holder constructed in accordance with the instant invention shown in position on a bow, an archer being indicated in dotted lines.

FIGURE 2 is an enlarged sectional view taken substantially along the line 2—2 of FIG. 1 as viewed in the direction indicated by the arrows.

FIGURE 3 is a sectional view taken substantially along the line 3—3 of FIG. 2 as viewed in the direction indicated by the arrows.

FIGURE 4 is a sectional view taken substantially along the line 4—4 of FIG. 2 as viewed in the direction indicated by the arrows.

FIGURE 5 is a sectional view taken substantially along the line 5—5 of FIG. 2 as viewed in the direction indicated by the arrows.

FIGURE 6 is a sectional view taken substantially along the line 6—6 of FIG. 3 as viewed in the direction indicated by the arrows.

FIGURE 7 is a perspective view of a modified form of arrow point protecting shield.

FIGURE 8 is a perspective view of a modified form of arrow holding attachment shown in association with a bow, a portion of the archer's body being indicated in dotted lines.

FIGURE 9 is an enlarged sectional view taken substantially along the line 9—9 of FIG. 8 as viewed in the direction indicated by the arrows.

FIGURE 10 is a sectional view taken substantially along the line 10—10 of FIG. 9 as viewed in the direction indicated by the arrows; and,

FIGURE 11 is a sectional view taken substantially along the line 11—11 of FIG. 8, on an enlarged scale, one of the arrows and the attachment ring being shown in different positions.

Similar reference characters refer to similar parts throughout the several views of the drawing.

Having reference now to the drawings in detail, and more particularly to FIGS. 1 to 6, inclusive, there is generally indicated at 20 a bow of conventional design which includes a handle 21, an arrow rest 22, an upper limb 23, a lower limb 24, and the usual string 25. The arrow holding attachment of the instant invention comprises an upper plate generally indicated at 26, and a lower plate generally indicated at 27, which are adapted to be positioned, in a manner to be more fully described hereinafter on the upper and lower limbs of the bow respectively.

Plate 26 is of a configuration as best shown in FIG. 3 and includes a main body 28 provided with a series of upwardly beveled holes 29, which are adapted to receive the points 30 of arrows 31. A rearwardly extending portion 32 positioned adjacent one side of the main body 28 has an elongated bowl limb encompassing slot 39 which is open at its outer end as at 40. One or more spaced notches 41 are positioned on the projecting portion 42 adjacent the straight side 43 of plate 26, and are adapted for the selective engagement of a ring 44, which may be of any desired type, comprising either a resilient rubber ring, a split metal or plastic ring, or an elastic band as desired. In the case of a split ring the end of the ring is inserted in one of a plurality of holes 45 at the opposite side of slot 39, the arrangement being thus such that the plate may be readily positioned on or detached from the bow limb with a minimum of effort and difficulty. At least one of the openings 45 may have a slot 45*a* extending therefrom to the adjacent side of plate 26, to permit insertion of a continuous elastic band or the like.

The plate portion 28 also includes a shield 47, which is arcuate in cross-sectional configuration, and which is attached to the upper side of the plate, as at 48. The shield 47 encompasses and overlies the points 30 of arrows 31 which project upwardly through the holes 29, and extends downwardly below the plate 26 to form a skirt 49, which abuts the outer side of the plate, and which may be secured thereto if desired, thus effectively protecting the archer against contact with the points of the arrows when carried in the arrow holder.

Lower plate 27 is of substantially the same shape as upper plate 26, and is provided with a similar bow limb encompassing slot 50 which encircles the lower limb 24 of the bow below handle 21, and is provided with notches 51 similar to the notches 41. A securing ring 52 is provided similar to the ring 44, the latter being seated in a selected one of openings 53 which correspond to the openings 29 previously discussed. At least one of openings 53 is provided with a slot 53*a* corresponding to slot 45*a*. The manner of attachment of lower plate 27 is substantially identical with that of the plate 26, in that the ring 44, or 52, is released, and the plate slid over its associated bow limb until such time as it fits snugly, whereupon the ring 44 or 52 is secured in its associated notch 41, or 51, firmly to hold the plate in association with the bow.

Lower plate 27 is provided along its outer edge 54 with a series of slots 55*a*, 55*b*, and 55*c* which are adapted for the reception of arrow shafts 31. These slots may be either single, as is the case with slots 55*a*, or may be double as indicated at 55*d* in connection with slot 55*c*. In the latter case two arrows may be held in alignment, the holes 29 being of sufficient breadth to accommodate two arrow points 30 in side by side relation.

As conducive to a clearer understanding of this invention, it may here be pointed out that in arrow holders of this character previously known, there has been provided a closed slot in the end portion, which has necessitated, in

order to place the plates on the bow, or to remove them therefrom, first the removal of all arrows from the holder; secondly, the unstringing of the bow; thirdly, the placement or removal of the plates over the appropriate bow limb, adjusting them to the thickness of the bow, there generally being no provision being made in the plates for various sizes and configurations of bow, then restringing the bow, and finally replacing the arrows in position in the holder.

All of this has been time consuming and tedious, as well as complicated. By virtue of the instant arrangement the plates 26 and 27 may be readily slipped over a bow of any desired shape or configuration, within the limits of the size of the appropriate slots, and secured in position by means of the rings 44 and 52 with a minimum of effort and difficulty.

Means may be provided for connecting the upper and lower plates 26 and 27 together so that they may be retained as a unit, both on the bow, and when separated therefrom, and such means, in the illustrative embodiment shown, take the form of an elongated stay rod 60 threaded at its upper end as at 61 and at its lower end as at 62. The upper and lower ends of the rod 60 are adapted respectively to extend through suitable aligned holes 63 and 64 in the plates 26 and 27, respectively, and be held in position by opposed lock nuts 68 and 69 on opposite sides of upper plates 26 and 70 and 71 on opposite sides of lower plate 27. By virtue of this arrangement it will be readily apparent that adjustment and clamping of the rod 60 may be readily effected to retain the plates 26 and 27 in related assembly whether associated with or disassociated from the bow 20.

Obviously, if desired, a flexible member such as a metal wire or even a thong may be employed for the same purpose of securing the parts in related assembly.

FIGURE 7 discloses a modified form of the invention wherein a plate 75, which is substantially identical in all respects with the previously described upper plate 26, has with a skirt or shield 77, which is provided at its ends side plates 78, and these side plates may be either integral with the top portion and split along the ends of the shield as at 79, or be formed separately and attached at points desired by any suitable means. The purpose of these side plates 78 is to preclude accidental engagement of any part of the body of the archer with the sharp edges of the arrow heads held on the device.

FIGURES 8 to 11, inclusive, show a still further modified form of the invention, wherein the bow is substantially identical with that previously described, and comprises the same parts bearing the same reference numerals. In this modification there is provided an upper plate 80, of the same general configuration as the plate 26, and having a rearwardly extending open ended slot 81, formed in the projecting portion 82 thereof. The end of projecting portion 82 is provided with notches 82*a* on one side thereof for the reception of a ring 83, which in this instance may be of split metal construction having eyes 84 at one end thereof adapted for the reception of a securing bolt 85, which extends through a selected one of apertures 86 on the opposite side of slot 81.

In this modification, in order to prevent the necessity of disassembling the bolt and ring assembly, the openings 86 may be united with elongated slots 87, which extend to the edge of the plate 80.

A continuous ring, such as a resilient rubber ring, may be used for closing the bow limb slot 81, without the bolt, which ring would be merely slipped into an opening 86 through a slot 87.

The arrow receiving portion 88 of the plate 80 is provided with a plurality of holes 89 adapted for the reception of the arrow shafts 31, elongated slots 90 being provided by means of which the shafts of the arrows may be inserted from the side 90*a* of the plate. A shield 91 is provided, which is joined to the plate 80 at 92 adjacent inside of the row of openings 89 therein, and which has a transverse partition 93 extending across the interior having holes 93*a* therein for the reception of the arrow points 30. In this modification the skirt is flexible and is on one side as shown at 94, to the outer end of the plate 80. End shields may be provided, the front side 96 of the shield being separated as best shown in FIG. 8 from the side shields.

The above described modification is of material advantage in certain instances in expediting the release of the arrows. When an arrow is held adjacent its rear by the notch in the lower supporting plate 99, which is similar in construction to the previously described lower supporting plate 27, but which will be more fully described hereinafter, and the tip is not held in a hole in an arrowhead supporting plate, but rather only the forward portion of the arrow shaft 31, just below the arrow head 30, is held in a hole 89 in the upper shaft supporting plate 80, it is more difficult to loosen and withdraw the shaft 31 from the holder than is the case in the previously described modification. The rearward portion of the shaft is first pulled loose from the notch in the lower shaft supporting plate 99 by the fingers in the immediate region of this plate. This will seldom pull the shaft 31 out in the notch of the upper support plate 80, so the rearward portion of the shaft must be levered back quite a distance from the lower plate in order to free the forward end from the notch in the upper plate. Even this maneuver does not always work, necessitating the shifting of the fingers up to the upper plate 80 to press the shaft loose from the notch there. This delay may have unfortunate consequences, as, for example, when the archer is trying to get off another quick shot at game.

The arrow holder disclosed in FIGS. 8 to 11 obviates this disadvantage. The instant the fingers release the lower end of the arrow shaft from the notch in the lower supporting plate 99 the tip of the arrowhead presses backward against the rear wall of the hole 93*a* in transverse partition plate 93, which acts as a sort of fulcrum and the arrow shaft 31 is immediately levered from the elongated slot 90 in the upper shaft supporting plate 80 and slipped readily out from under the flexible loose hanging front side 96 of the shield 91, all with a very little movement and in an instant of time.

A lower supporting plate 99 is similar in general configuration to lower plate holder 27 of FIG. 4, and includes a projecting portion 100 having notches 101 therein corresponding to the notches 51, and openings 102 with slots 103 corresponding to the openings 86 and slots 87, respectively the plate 80. A ring similar to the ring 84 may be used, or a metallic ring 104 having a diagonal split 105 therein, or any continuous flexible ring, such as a rubber ring, may be employed. Obviously, the rings are interchangeable with any of the plates previously described. The supporting plate 99 is also provided with a plurality of arrow shaft holding notches 106*a*, 106*b*, and 106*c*, a second notch 106*d* being provided in rear alignment with the notch 106*c*. Obviously, notches 106*a* and 106*b* may also be double for the purpose of holding two shafts 31 of the arrows, as in the previously described modification.

If desired, a rod similar to the stay rod 60 of the previously described modification may be employed for securing the supporting plates 80 and 99 together.

From the foregoing it will now be seen that there is herein provided an improved arrow holding device of the character described which accomplishes all of the objects of this invention, and others, including many advantages of great practical utility and commercial importance.

As many embodiments may be made of this inventive concept, and as many modifications may be made in the embodiment hereinbefore shown and described, it is to be understood that all matter herein is to be interpreted merely as illustrative, and not in a limiting sense.

I claim:

An arrow holder for attachment to bows comprised by

a first plate having at least two straight sides with a row of slots adjacent one side for receiving the shafts of the arrows adjacent the pointed ends of the latter, a slot adjacent the other side for receiving one limb of the bow, and pivotally mounted means for closing said slot to hold the plate in place on one limb of the bow, a shield curved in cross-section having one side secured to the plate inwardly of the slots in the latter and the other side abutting the first side of the plate, a partition plate positioned within and transversely of the shield and havign holes therein aligned with the slots in the plate for receiving the points of the arrows, a second plate having at least two straight sides with a row of slots along one side for receiving the shafts of the arrows between the mid-length and the feathered ends of the latter, and a slot adjacent the other side for receiving the other limb of the bow with the slots along the first side in alignment, respectively, with the slots along the first side of the first plate,

and pivotally mounted means for closing the slot adjacent the second side to hold the latter plate in place on the other limb of the bow.

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