

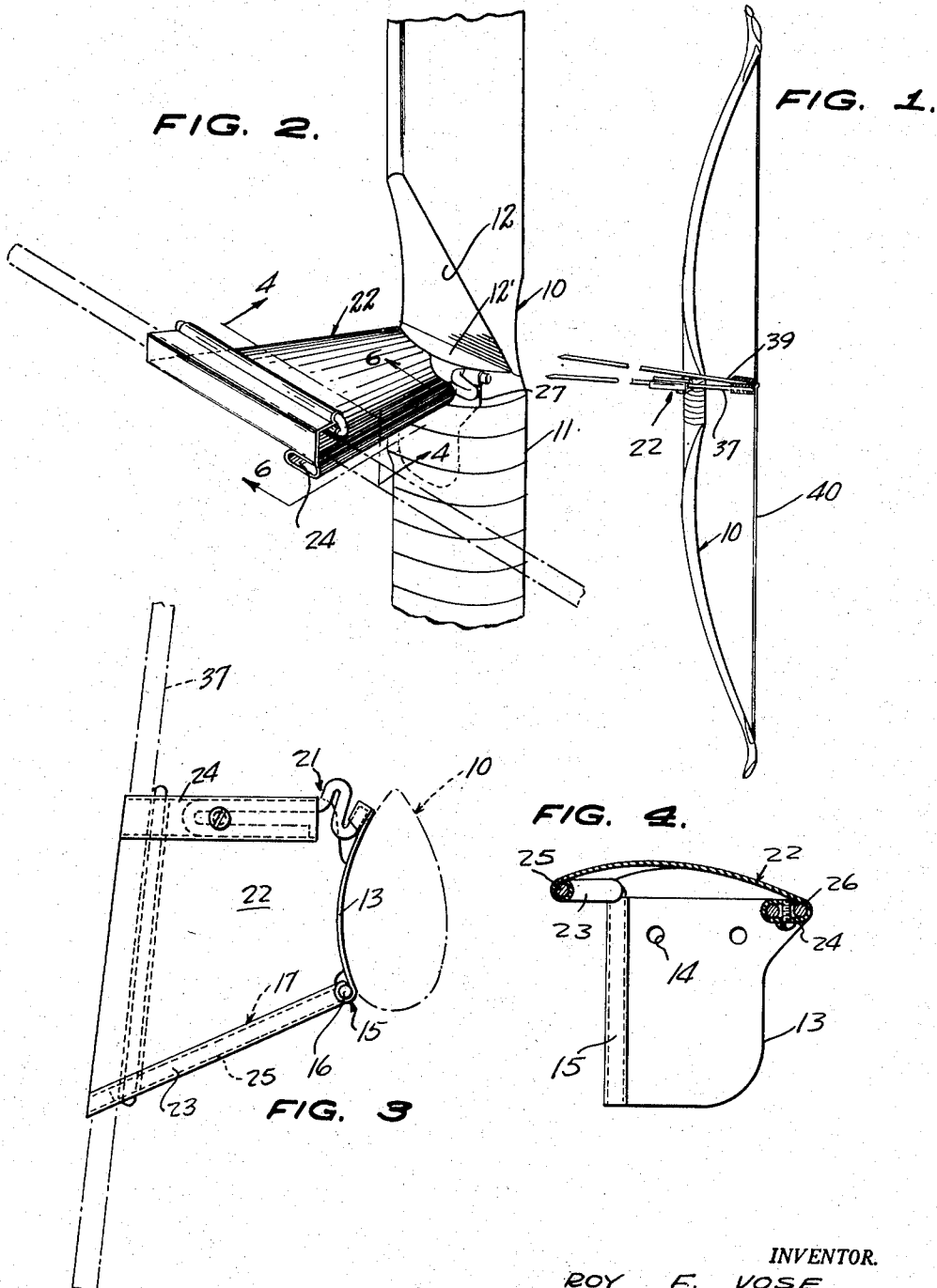
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R. F. VOSE
BOW MAGAZINE

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2 Sheets-Sheet 1



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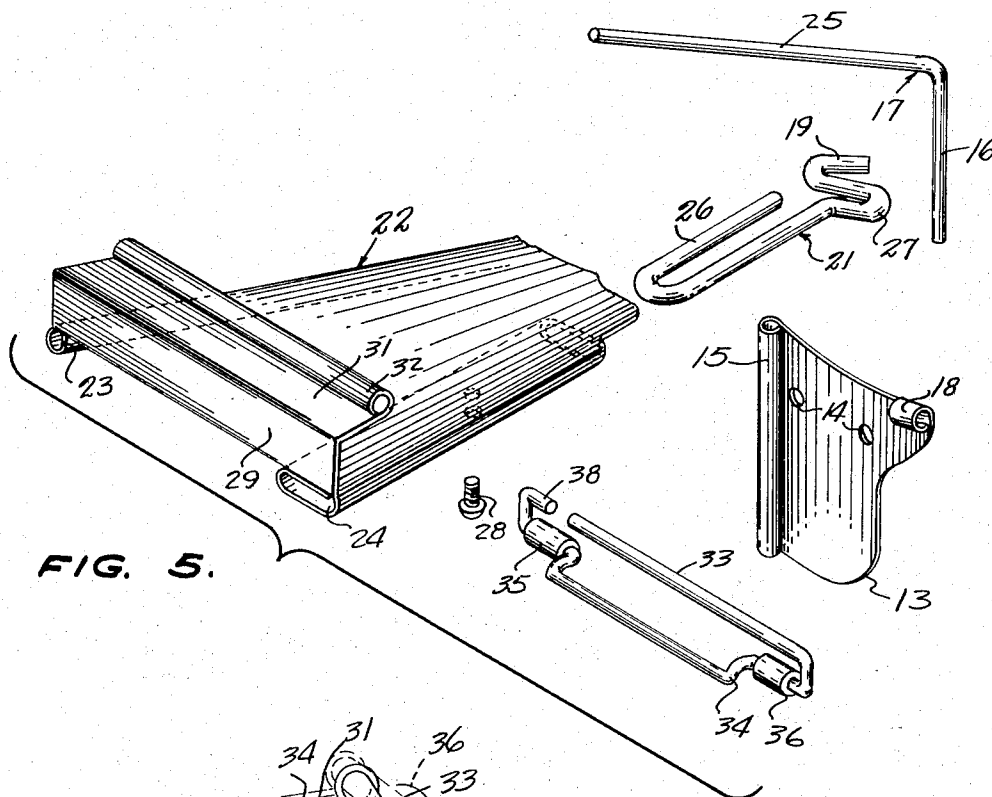


FIG. 5.

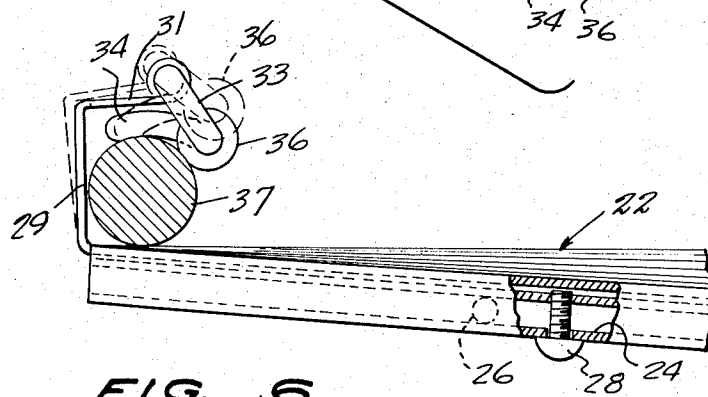


FIG. 6.

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3 Claims. (Cl. 124—24)

The present invention relates to hunting bows and in particular to a magazine for holding an arrow.

An object of the present invention is to provide a bow magazine which lends itself to supporting a second arrow in a position close to the firing position of the first arrow and enables the huntsman to fire the second arrow quickly after the first arrow has been shot without taking his eyes from the target or game.

Another object of the present invention is to provide a bow magazine which may be quickly attached and detached from the bow, one which is sturdy in construction, simple in structure, one which may be economically manufactured and assembled on all makes of bows and one which is highly effective in action.

These and other objects and advantages of the present invention will be fully apparent from the following description when taken in connection with the annexed drawings, in which:

Figure 1 is a perspective view of a bow with a first arrow resting in the arrow notch and with the bowstring partially drawn, and with a second arrow held in the magazine of the present invention,

Figure 2 is a fragmentary perspective view of the bow of Figure 1 with the magazine of the present invention installed thereon and with a portion of an arrow supported in the magazine and shown in dotted lines,

Figure 3 is a bottom view of the assembly of Figure 2 with the bow shown in dotted lines,

Figure 4 is a sectional view taken on line 4—4 of Figure 2,

Figure 5 is an exploded view on an enlarged scale, and

Figure 6 is a sectional view taken on the line 6—6 of Figure 2.

Referring in greater detail to the drawings in which like numerals indicate like parts throughout the several views, a bow is shown and is indicated by the reference numeral 10 and includes a hand grip portion 11 and an arrow notch 12, including a horizontally disposed base wall, as indicated at 12', adjacent the upper end of the hand grip portion 11. The magazine for an arrow, constructed according to the present invention, comprises an upstanding plate 13 fixedly secured to the bow 10 adjacent to and below the arrow notch, the plate 13 being shown in dotted lines in Figure 2, and secured to the bow by the wrappings of the leather strips which form the covering for the hand portion 11.

The plate 13 is shown in elevational view in Figure 4 and is seen to have a pair of holes 14 for the insertion of small screws to further secure the plate 13 to the hand grip portion 11 of the bow 10. In Figure 3, the plate is shown in edge view and is seen to be curved to conform to the shape of the hand grip portion 11. One side of the plate 13 is rolled back upon itself, as at 15, to form a tubular socket for the receipt of a short leg 16 of an L-shaped rod 17. Another tubular socket is provided, indicated by the reference numeral 18, by another rolled portion of the plate 13 adjacent the top edge of the latter. This tubular socket 18 is for the receipt of an end portion 19 of another rod 21.

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The plate 13 is positioned with its concave face abutting the hand grip portion of the bow 10 and a shelf 22, having a tubular socket 23 along one edge and an elongated tubular socket 24 along the other edge for receiving the long leg 25 of the rod 17 and the U-shaped portion 26 of the rod 21, respectively, projects from the other face of the plate 13 adjacent the upper end thereof and is detachably secured to the plate 13 when in assembled condition.

The rod 21 has a second U-shaped portion 27 inwardly of the end portion 19 and forming a thumb hold by means of which the legs of the U-shaped portion 26 are moved toward each other to release the end portion 19 from the socket 18 on the plate 13 when it is desired to disconnect the shelf 22 from the plate 13. A small screw 28 is threaded into the walls of the socket 24 between the legs of the U-shaped portion 26 and serves to retain the rod 21 within the socket 24.

A clip is carried on the free end of the shelf 22 and embodies a vertically disposed flange 29 secured to and formed integrally with the adjacent end of the shelf 22, and a horizontally disposed projection positioned above and spaced from the shelf 22, the projection being indicated by the reference numeral 31 and being secured to and formed integral with the flange 29. The end of the projection 31 remote from the end which is connected to the upper end of the flange 29 is provided with a rolled back portion forming a tubular socket 32 which receives one end portion of a further rod 33 which is bent into a substantially complete loop having an offset 34 and carrying a pair of rollers 35 and 36.

In Figure 6, an arrow shaft is shown in cross section and indicated by the reference numeral 37, and it will be seen that the rollers 35 and 36, only the latter one being shown, frictionally engage the arrow shaft 37 for holding the latter between the roller 36 and the flange 29, but permitting the release of the arrow shaft 37, the rod 33 connecting the rollers 35 and 36 to the projection 31 for swinging movement from the full line position to the dotted line position to release the arrow shaft 37. The shelf 22, flange 29, and projection 31 are formed integrally of a resilient material permitting the bending of the projection upwardly, as shown in dotted lines in Figure 6, permitting the ready insertion and withdrawal of the arrow shaft 37.

In the assembly of the bow magazine of the present invention, the plate 13 is first positioned with its concave face abutting the side of the hand grip portion of the bow 10 with its upper end flush with the base wall 12' of the arrow notch 12, and the wrapping of the hand grip portion is used to cover the lower end portion of the plate 13. Next, the long end portion of the rod 33 is inserted into the socket 32 and then the other end portion 38 is inserted, the rod 33 bending enough to permit the assembly. The long leg 25 of the rod 17 is next inserted within the socket 23 and is fixed thereby welding, adhesive, or by other means. The U-shaped portion 26 of the rod 21 is slid into the socket 24 with the screw 28 removed, and then the screw 28 is replaced and tightened. The short leg 16 of the rod 17 is next inserted into the rolled back side 15 of the plate 13 and pressure on the second U-shaped portion 27 of the rod 21 compresses the legs together and permits the insertion of an end portion 19 within the tubular socket 18 of the plate 13. The position of the shelf 22 with respect to the plate 13 may be adjusted by positioning the portion 26 of the rod 21 within the socket 24. This is done by loosening and then later, retightening the screw 28. This permits the adjustment of the distance between the bowstring 40 and the feathered end of the arrow 37 when the latter is supported upon the shelf of the invention.

In use, a first arrow 39 may be propelled in the con-

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ventional manner, and the arrow shaft 37 is then removed from the clip formed by the shelf and associated parts and slid into the arrow notch of the bow with a single motion of the fingers of the shooting hand, as the rear end of the arrow shaft 37 is drawn slightly to the right to engage the bowstring 40 and propelled in rapid flight after the flight of the arrow 39. This permits two arrows to be propelled in rapid succession without the archer or hunter taking his eyes from the target or game.

What is claimed is:

1. The combination with a bow including a hand grip portion and provided with an arrow notch adjacent the upper end of said portion, said notch having a horizontally disposed base wall, of a magazine for an arrow, said magazine comprising a shelf positioned on the open side of said notch and flush with the base wall of said notch with one end abutting the part of said grip portion below said notch base wall and secured to said hand grip portion, and a clip positioned transversely of said shelf adjacent to and carried by the other end of said shelf and adapted to releasably hold the shaft of an arrow.

2. The combination with a bow including a hand grip portion and provided with an arrow notch adjacent the upper end of said portion, said notch having a horizontally disposed base wall, of a magazine for an arrow, said magazine comprising an upstanding plate positioned with one face abutting said hand grip portion of said bow with the upper end of said plate flush with the base wall of said notch, a shelf projecting from the other face of said plate adjacent the upper end of the latter and detachably

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secured to said plate, and a clip carried on the free end of said shelf and adapted to releasably hold the shaft of an arrow.

3. The combination with a bow including a hand grip portion and provided with an arrow notch adjacent the upper end of said portion, said notch having a horizontally disposed base wall, of a magazine for an arrow, said magazine comprising an upstanding plate positioned with one face abutting said hand grip portion of said bow with the upper end of said plate flush with the base wall of said notch, a shelf projecting from the other face of said plate adjacent the upper end of the latter and detachably secured to said plate, and a clip carried on the free end of said shelf, said clip embodying a vertically disposed flange secured to the other end of said shelf, a horizontally disposed projection positioned above and spaced from said shelf and having one end connected to the upper end of said flange, and at least one resilient roller positioned below and spaced from the other end of said projection and connected to said projection for swinging movement toward and away from said flange, said roller being adapted to releasably and frictionally engage the shaft of an arrow positioned between said roller and said flange.

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