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E. F. MAXWELL

ARCHER'S ARROW NOCK AND FINGER GRIP

Filed April 15, 1924

Fig. 1.

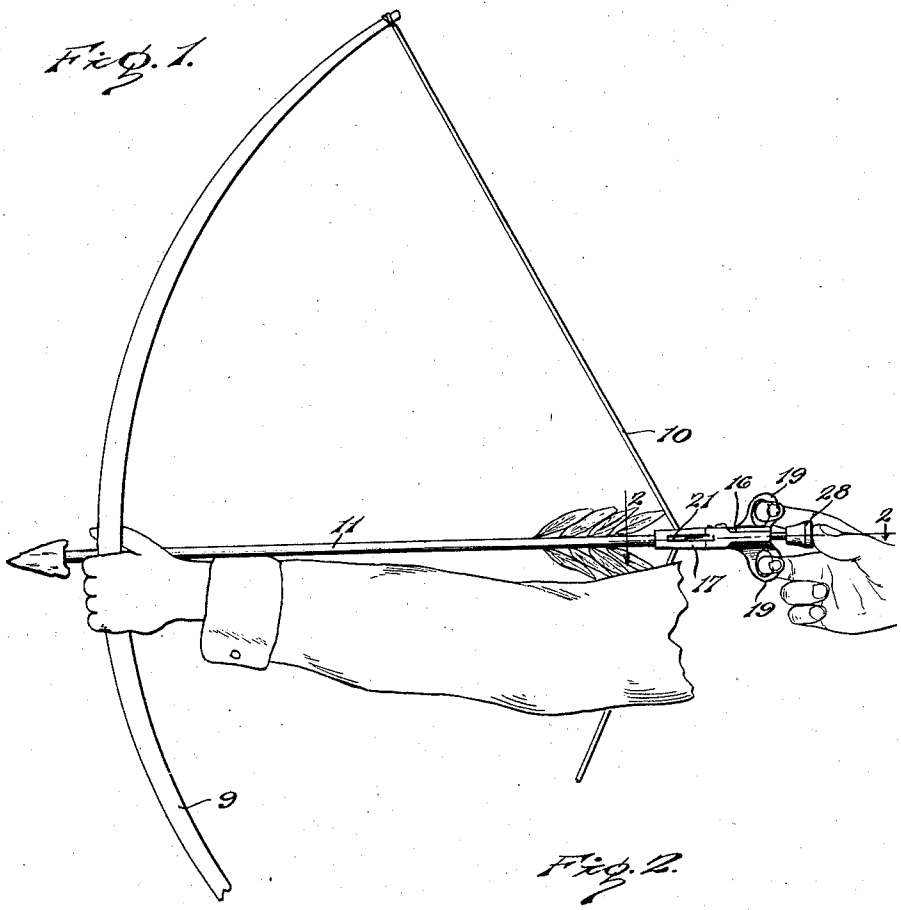
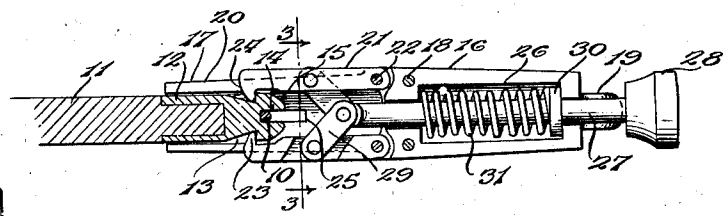


Fig. 2.



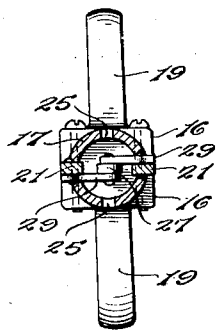


Fig. 3.

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UNITED STATES PATENT OFFICE.

EDWIN F. MAXWELL, OF BERKELEY, CALIFORNIA.

ARCHER'S ARROW NOCK AND FINGER GRIP.

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To all whom it may concern:

Be it known that I, EDWIN F. MAXWELL, a citizen of the United States, residing at Berkeley, in the county of Alameda and State of California, have invented certain new and useful Improvements in Archers' Arrow Nocks and Finger Grips, of which the following is a specification.

This invention relates to an improved arrow nock and finger grip for use by archers and seeks, among other objects, to provide a device which will, by facilitating the manipulation of a bow and arrow, render archery more popular.

The invention seeks, as a further object, to provide a device which will be of assistance in obtaining an accurate and steady aim of the arrow.

And the invention seeks, as a still further object, to provide a device whereby the bow string may be readily drawn and the arrow instantaneously released.

Other and incidental objects will appear hereinafter.

In the drawings:

Figure 1 is a fragmentary side elevation showing my improved device in connection with a bow and arrow.

Figure 2 is a sectional view through the finger grip employed, on the line 2—2 of Figure 1, looking in the direction of the arrows, and

Figure 3 is a transverse sectional view on the line 3—3 of Figure 2, looking in the direction of the arrows.

Referring now more particularly to the drawings, a bow is conventionally illustrated at 9 and the bow string at 10, while an arrow is illustrated at 11. Fitting over the rear end of the arrow shaft is a nock 12 suitably fixed to said shaft and provided at opposite sides thereof with notches 13, while at its outer end said nock is formed with a slot 14 at opposite sides of which are provided rounded faces 15.

In conjunction with the nock 12, I provide a finger grip including companion mating body sections 16 recessed at their forward ends to define a barrel 17, and detachably connecting the sections are screws or other suitable fastening devices 18. Projecting from the body sections at their rear ends are oppositely directed finger loops 19 and formed in the barrel 17 in a plane at a right angle to the plane of said loops are longitudinal slots 20 freely accommodating a pair of jaws 21. Swingingly supporting the jaws at their rear ends are pivot pins 22 extending through the body sections 16 at the base of the barrel and, as brought out in Figure 2, the jaws are notched at their forward ends to define confronting hooks 23 having inwardly curved forward edges 24. Formed in the barrel in a plane at a right angle to the plane of said jaws are oppositely disposed longitudinal slots 25 opening through the forward end edge of the barrel.

In the rear of the barrel 17, the body sections 10 are recessed to define a chamber 26 and slidable through said chamber to project into the barrel is a rod 27 confined between the confronting faces of the body sections. At its outer end the rod carries a head 28 and connecting the inner end of the rod with the jaws 21 are toggle links 29. Formed on the rod to move freely in the chamber 26 is a shoulder 30 and bearing between said shoulder and the inner end wall of the chamber is a spring 31 accommodated in the chamber. Thus, the spring will normally press the rod outwardly until the shoulder 30 strikes the outer end wall of said chamber and consequently swing the jaws 21 toward each other to closed position.

In use, the bow string 10 is positioned in the slot 14 of the nock 12 when the finger grip is positioned to receive the bow string in the slots 25 of the barrel 17 and the nock pushed into the barrel. As the nock is advanced, the rounded faces 15 of said terminal will ride over the curved edges 24 of the jaws 21 for separating said jaws so that the nock will move between the jaws until the hooks 23 of the jaws drop into the notches 13 of the nock, connecting the arrow with the finger grip. Accordingly, the bow may then, as suggested in Figure 1, be grasped in one hand, and the first and second fingers of the other hand engaged through the loops 19 of the finger grip and the grip pulled rearwardly for drawing the bow string. When this is accomplished, forward pressure by the thumb on the head 28 of the rod 27 will, as will be at once understood in view of the preceding description, serve to swing the jaws 21 apart and instantaneously release the arrow to be projected on its flight. I accordingly provide a particularly efficient device for the purpose set forth and a de-

vice which will be found of material assistance in the practice of archery.

Having thus described the invention, what I claim is:

1. A device of the character described including a finger grip body having a barrel to receive an arrow nock and provided with slots, and jaws accommodated in said slots of the barrel to engage said nock.

2. A device of the character described including a finger grip body having a barrel to receive an arrow nock, spring pressed jaws carried by the body to engage said nock, and manually operable means for releasing said jaws.

3. A device of the character described including a finger grip body having a barrel to receive an arrow nock and provided with slots to accommodate a bow string engaged with the nock, pivoted jaws associated with said barrel to engage said nock, and means for releasing said jaws.

4. A device of the character described including a finger grip body having a barrel to receive an arrow nock and provided with slots to accommodate a bow string engaged with the nock, pivoted jaws associated with said barrel, a rod slidable upon the body, toggle links pivotally connecting the rod with the jaws, and a spring acting on said rod for swinging the jaws into the barrel to engage said nock, the rod being manually shiftable for releasing the jaws.

5. In a device of the character described, the combination with an arrow nock, of a finger grip to cooperate with said nock and including jaws spring pressed to engage the nock, and a manually shiftable push rod for releasing the jaws simultaneously.

6. In a device of the character described, the combination with a finger grip having jaws, of an arrow nock to cooperate with said grip and provided with notches to accommodate the jaws.

7. In a device of the character described, the combination with a finger grip having jaws, of an arrow nock to cooperate with said grip and provided with notches to accommodate the jaws and with a slot to receive a bow string.

8. A device of the character described including a finger grip body comprising companion sections mating to define a barrel to receive an arrow nock, pivoted jaws associated with the barrel, a push rod slidable between the sections, toggle links connecting the rod with said jaws, and a spring acting on the rod for closing the jaws, the rod being manually operable to swing the jaws away from each other.

In testimony whereof I affix my signature.

EDWIN F. MAXWELL. [L. S.]