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STAND AND STABILIZER FOR ARCHERY BOWS

Filed Sept. 27, 1963

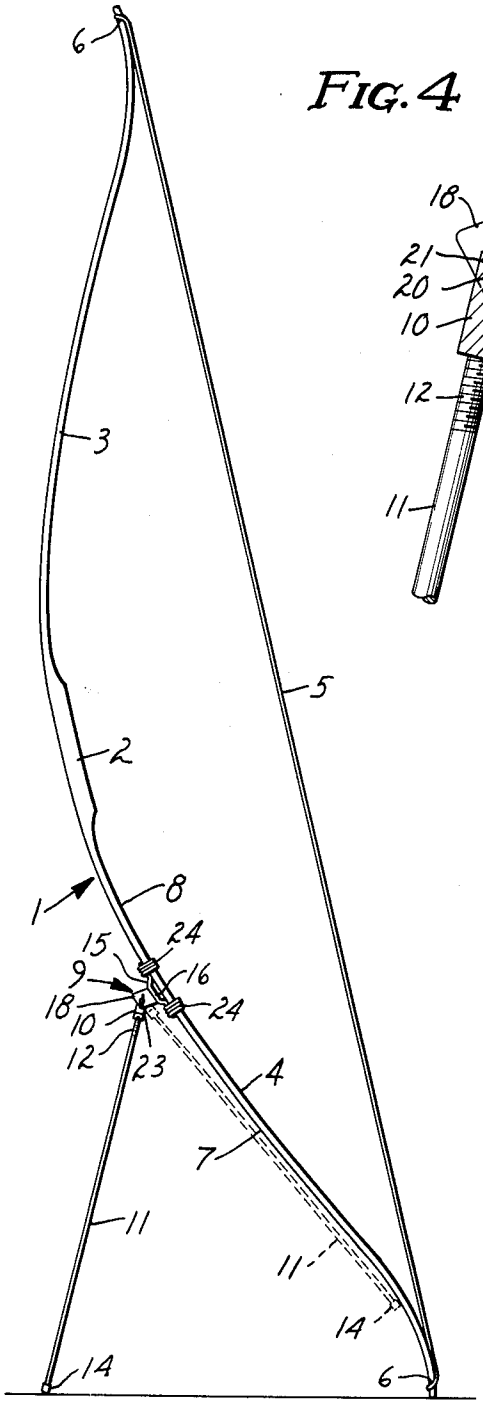
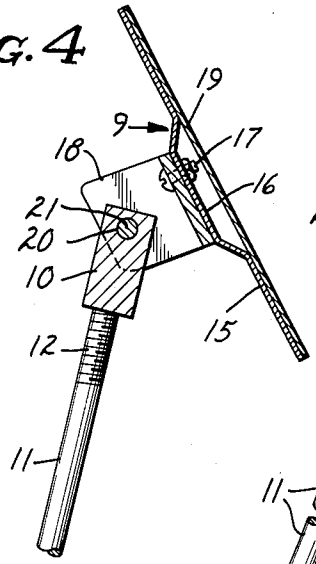


FIG. 1

FIG. 4



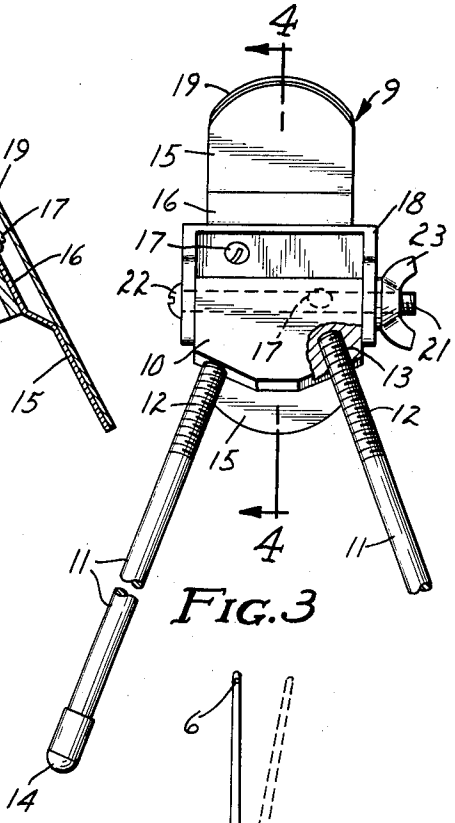


FIG. 3

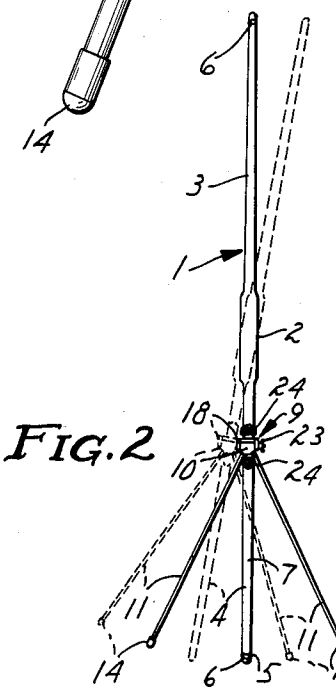


FIG. 2

INVENTOR.
ROBERT F. KOSER
BY
Merchant, Merchant & Gould
ATTORNEYS

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STAND AND STABILIZER FOR ARCHERY BOWS

Robert F. Koser, Koser Silo Works, Almena, Wis.

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My invention relates generally to archery bows, and more particularly to an attachment for archery bows for supporting the same between periods of use.

An important object of my invention is the provision of a stand which supports a bow in a generally upright position on the ground.

Another object of my invention is the provision of a stand which may be easily attached to a bow, and which does not interfere with proper action of the bow or the archer when the bow is in use.

Still another object of my invention is the provision of a stand as set forth, which acts as a stabilizer to aid the user in holding the bow more steadily when shooting.

Another object of my invention is the provision of a stand and stabilizer which, when not in use, may be positioned or folded into close proximity to the adjacent limb of the bow, whereby to occupy a relatively small space.

To the above ends, I provide a stand and stabilizer involving, a bracket adapted to be secured to the lower limb portion of a bow below the grip thereof, a head pivotally secured to said bracket, means for releasably locking the head against pivotal movement relative to the bracket and the bow when the bracket is mounted on a bow, and a pair of stabilizer legs secured at their upper ends to said head and diverging in a direction generally downwardly from said head, the legs and the lower limb portion of the bow providing a tripod, when said bracket is attached to the bow, for supporting the bow in a generally upright position on the ground.

The above, and still further highly important objects and advantages of my invention, will become apparent from the following specification, appended claims and attached drawings.

Referring to the drawings, which illustrate the invention, and in which like reference characters indicate like parts throughout the several views:

FIG. 1 is a view in side elevation of an archery bow having my stand and stabilizer attached thereto and supporting the bow in a generally upright position;

FIG. 2 is a view in elevation, as seen from the left with respect to FIG. 1, on a reduced scale;

FIG. 3 is an enlarged fragmentary view corresponding to a portion of FIG. 2 with some parts removed, some parts broken away, and some parts shown in section; and

FIG. 4 is a fragmentary section taken substantially on the line 4—4 of FIG. 3.

Referring with greater detail to the drawings, an archery bow, indicated in its entirety by the numeral **1**, is shown as comprising a central grip portion **2**, upper and lower limb portions **3** and **4** respectively, and a bow string **5** operatively connected at its opposite end to the outer ends of the limb portions in the usual nocks **6** formed therein. The numerals **7** and **8** indicate respectively the back and belly surfaces of the bow **1**.

The stand and stabilizer of my invention comprises a bracket **9**, a head **10**, and a pair of laterally spaced legs **11** having screw threaded upper end portions **12** that are screw threaded into threaded apertures **13** in the head **10**. Preferably, and as shown, the lower ends of the legs **11** are provided with ground-engaging feet or the like **14**.

The bracket **9** comprises a metallic mounting plate or strip **15** having a laterally outwardly displaced central portion **16** to which is rigidly secured, by means of nut-equipped screws or the like **17**, a generally U-shaped member **18**. Preferably, a backing strip **19** made from felt, leather or the like, is adhered to the mounting strip or

plate **15** for engagement with the back surface **7** of the bow **1** to prevent marring of the finish of the bow.

The head **10**, which is preferably made from metal, is received within the generally U-shaped member **18**, and is provided with a transverse aperture **20** which receives a machine screw or bolt **21** that also extends through suitable aligned apertures in opposite sides of the generally U-shaped member **18** for mounting the head **10** for pivotal movements relative to the bracket **9** on a generally horizontal axis. At one end, the screw **21** is provided with a head **22** that engages one side of the generally U-shaped member **18**, the opposite end of the head **22** being threaded to receive a washer-equipped clamping nut **23** that engages the opposite side of the U-shaped member **18** to releasably lock the head **10** and legs **11** carried thereby in any desired position of pivotal movement of the head **10** about the axis of the screw **21**. Preferably, the U-shaped member **18** is sufficiently resilient so that the opposite sides thereof are clamped against the adjacent ends of the head **10** when the clamping nut **23** is tightened, to prevent pivotal movement of the head **10**.

As shown in FIGS. 1 and 2, the bracket **9** is secured to the bow **1** by placing the bracket against the back surface **7** of the lower limb portion **4**, with the backing strip **19** lying against the back surface **7**. Bindings **24** are wound about the opposite end portions of the mounting strip **15** and the adjacent portions of the lower limb **4** to anchor the bracket **9** to the bow **1**. The bindings **24** may be made from any suitable material, such as heavy thread, string, tape or the like. This means of mounting the bracket **9** to the bow does not weaken the bow nor interfere with the normal action thereof.

It will be noted, with reference to FIGS. 2 and 3, that the legs **11** diverge in a direction generally downwardly from the head **10**. With this arrangement, when the head **10** is disposed in the bracket **9** to cause the legs **11** to slope forwardly and downwardly with respect to the bow, the legs **11** cooperate with the lower bow limb **4** to provide a tripod which supports the bow in a generally upright position on the ground. Thus, it is not necessary for the archer to lay the bow on the ground or find other means of support for the bow during intervals of nonuse, nor does the archer need to carry the bow to the target area when it is desired to retrieve the arrows previously shot from the bow.

One of the important advantages of the present invention lies in the ability thereof to act as a stabilizer during operation of the bow. I have found through prolonged testing, that the weight of the attachment, being applied to the lower portion of the bow, reduces the tendency of the archer to tilt the bow laterally, as indicated by dotted lines in FIG. 2, when shooting. Thus, with the bow held vertically, as shown by full lines in FIG. 2, the archer is materially aided in producing uniform shots, and more accurate shooting results.

For storage, the clamping wing nut **23** may be loosened and the legs **11** swung toward a generally parallel relationship to the lower limb **4**; or, if desired, the legs **11** may be unscrewed from the head **10** and otherwise stored.

While I have shown and described a preferred embodiment of my stand and stabilizer for archery bows, it will be understood that the same is capable of modification without departure from the spirit and scope of the invention, as defined in the claims.

What I claim is:

1. A stand and stabilizer for archery bows having a central handgrip portion and opposite bow string receiving ends, comprising:

(a) a bracket,

(b) means for securing said bracket to a portion of a

bow intermediate the handgrip and one of the ends of the bow,

(c) a head pivotally mounted in said bracket for rotation on a generally horizontal axis,

(d) and a pair of independent generally downwardly diverging stabilizer legs having upper ends independently releasably secured to said head,

(e) said legs and said bow providing a tripod, when said bracket is secured to the bow, whereby said bow is supported in a generally upright position on the ground.

2. In combination with an archery bow comprising a central grip portion and elongated upper and lower limb portions extending longitudinally from opposite ends of said grip portion and having opposed belly and back surfaces:

(a) a bracket,

(b) means securing said bracket to the back surface of said lower limb portion,

(c) a head pivotally mounted in said bracket on a generally horizontal axis,

(d) means releasably locking said head against pivotal movements relative to said bracket, and

(e) a pair of stabilizer legs having inner ends rigidly secured to said head and diverging in a direction outwardly from said head, said legs and said lower limb portions providing a tripod for supporting said bow in a generally upright position on the ground.

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RICHARD C. PINKHAM, *Primary Examiner.*

W. R. BROWNE, *Assistant Examiner.*