

[54] **CLACKER FOR ATTACHMENT TO ARCHERY BOW**

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[56] **References Cited**

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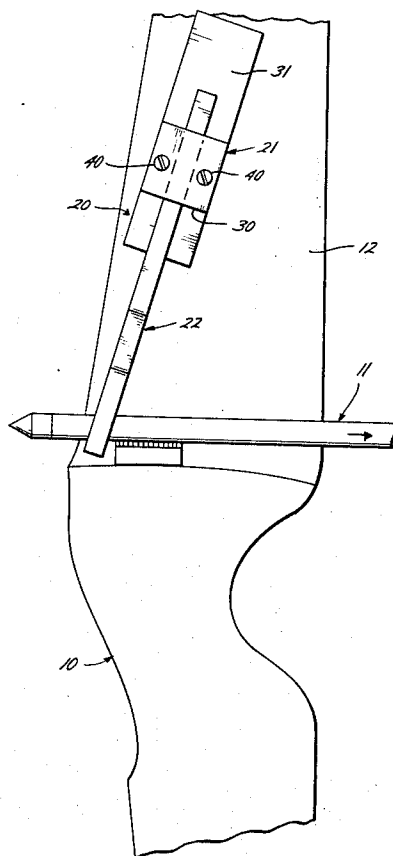
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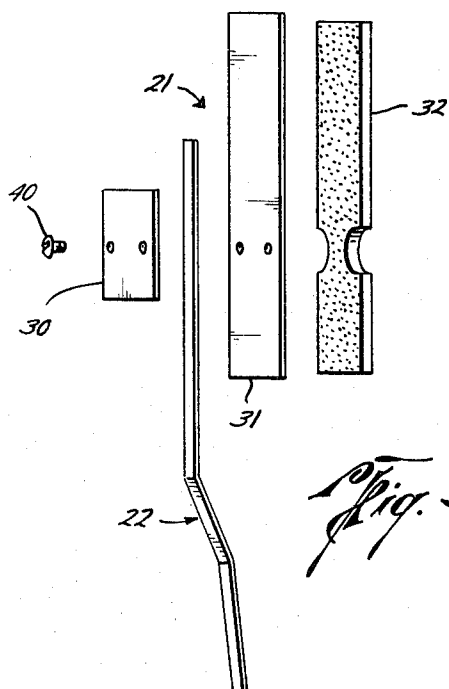
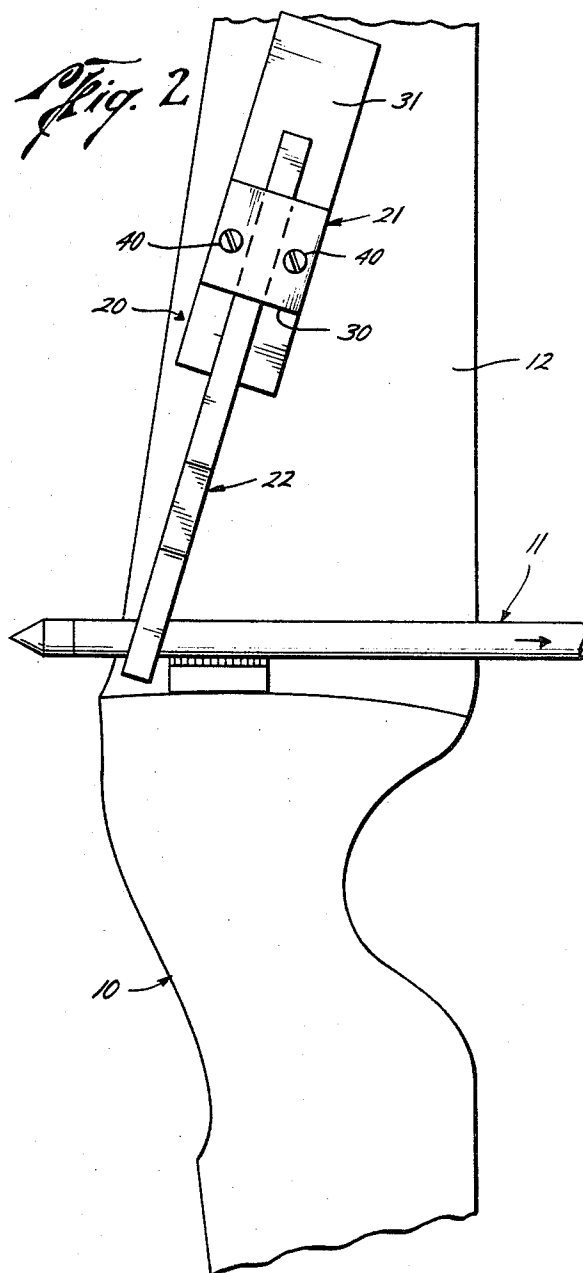
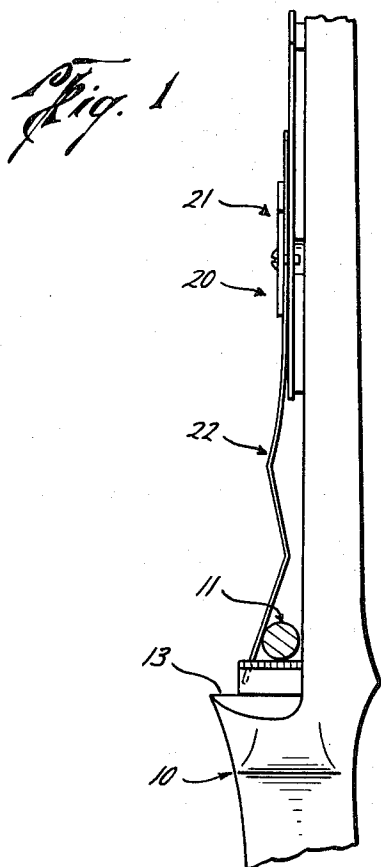
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[57] **ABSTRACT**

A clacker adapted for attachment to an archery bow. The clacker includes two metal strips of anodized aluminum, a spring element that is sandwiched between the metal strips, and an adhesive member that is used to attach the above members to an archery bow. The spring element is biased outwardly from a bow by an arrow during the drawing of a bow string. When the spring element moves out of engagement with an arrow, the spring element will slap the bow and the noise produced indicates to the user that the arrow has been drawn the proper distance.

2 Claims, 3 Drawing Figures





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CLACKER FOR ATTACHMENT TO ARCHERY BOW

This invention relates to a clacker for attachment to an archery bow, and it concerns more particularly an improved clacker for attachment to one side of an archery bow, in the area referred to as the sight window of the bow, above the arrow shelf, for use as an indicator, to determine by sound when the bow, with an arrow in place, has been fully drawn.

The invention is an improvement of an unpatented device now on the market, one variation of which is known as the HOYT Klicker. The device consists of two parts, a laminated patch whereby the clacker is attached to the side of the bow and an elongated flat metal spring element, bent angularly intermediate its ends, having one of its ends connected to the patch and depending therefrom, in the vertical position of the bow, for overlying engagement with the pointed end of an arrow arranged upon the bow, so that upon drawing the bow, with the arrow in place, as the spring element disengages the arrow it slaps the side of the bow, making an audible sound indicating that the bow has been fully drawn.

The HOYT Klicker above mentioned, for example, includes a laminated patch as described having a thin outer layer of leather and a layer of adhesive tape, adhesive on both sides, for attachment of the patch to the side of the bow. An elongated flat metal spring element as described has one of its ends passed through a slit in the leather whereby it is secured to the patch, and depends therefrom, in the vertical position of the bow.

The improved clacker of this invention has a three layer patch, including two layers of anodized aluminum, characterized by its light weight, and of selected predetermined colors, each comprising a thin strip, one substantially shorter than the other, and a layer of adhesive tape, adhesive on both sides, attached to the longer of the aluminum pieces for attachment of the patch to the side of the bow. The two thicknesses of aluminum are secured by a pair of screws, and clamp between them one end of the spring element. The spring element is formed of stainless spring steel, and the arrangement is such that upon loosening the screws the spring element may be inclined to one side or the other, or adjusted longitudinally relative to the patch, as described.

The invention will be readily understood by referring to the following description and the accompanying drawing, in which:

FIGS. 1 and 2 show fragmentarily an archery bow having a clacker embodying this invention attached to one side thereof, in the area referred to as the sight window of the bow, above the arrow shelf, and showing the clacker in its operative position relative to an arrow arranged upon the bow, upon drawing the bow, with the arrow in place; and

FIG. 3 is an exploded view on an enlarged scale showing the clacker in more detail.

Referring to FIGS. 1 and 2 of the drawing the number 10 designates generally a conventional archery bow. An arrow, designated generally by the numeral 11, is arranged upon the bow 10.

The numeral 20 indicates generally an improved clacker embodying the invention, which as shown in FIGS. 1 and 2 is attached to one side of the bow 10, in the area referred to as

the sight window, indicated by the numeral 12, above the arrow shelf 13.

The clacker 20 has two parts, a laminated patch, indicated generally by the numeral 21, whereby the clacker 20 is attached to the side of the bow 10, and an elongated flat metal spring element 22, bent angularly intermediate its ends, having one of its ends connected to the patch 21 and depending therefrom, in the vertical position of the bow 10, for overlying engagement with the pointed end of the arrow 11 arranged upon the bow 10, so that upon drawing the bow 10, with the arrow 11 in place, as the spring element 22 disengages the arrow 11 it slaps the side of the bow 10, making an audible sound indicating that the bow 10 has been fully drawn.

The patch 21 has three layers, including two layers 30, 31 of anodized aluminum, characterized by its light weight and of selected predetermined colors, each comprising a thin strip. The layer 30, which is the outer layer, is relatively shorter than the inner layer 31. A layer of adhesive tape 32, which is adhesive on both sides, is attached to the inner, longer of the aluminum pieces 30, 31, for attachment of the patch 21 to the side of the bow 10.

The two thicknesses of aluminum 30, 31 are secured by a pair of screws 40, and clamp between them one end of the spring element 22. The spring element 22 is formed of stainless spring steel, and the arrangement is such that upon loosening the screws 40 the spring element 22 may be inclined to one side or the other, or adjusted longitudinally relative to the patch 21, as desired.

The invention may be modified in various ways without departing from the spirit and scope thereof.

I claim:

1. An improved clacker adapted for attachment to one side of an archery bow, in the area referred to as a sight window of a bow, above an arrow shelf, consisting of two parts, a laminated patch and an elongated flat metal spring element, said two parts being adapted to be secured to a bow, said spring element being bent angularly intermediate its ends and having one of its ends connected to the patch and depending therefrom, said spring element being adapted to overlie and engage the pointed end of an arrow upon a bow, so that upon drawing a bow, with an arrow in place, the spring element will disengage and arrow and slap a side of a bow, making an audible sound indicating that a bow has been fully drawn, said patch having three layers, including two layers of light weight anodized aluminum, of selected predetermined colors, each layer of anodized aluminum comprising a thin strip, one layer of anodized aluminum substantially shorter than the other, a layer of adhesive tape, said tape having adhesive on both sides, said tape being attached to the longer of the two aluminum pieces, said tape being adapted to provide an attachment of the patch to a side of a bow, the two thicknesses of aluminum being secured by a pair of screws, and clamping between them one end of the spring element.

2. The structure of claim 1, the spring element being formed of stainless spring steel and arranged such that upon loosening the screws the spring element may be inclined to one side or the other, or adjusted longitudinally relative to the patch, as desired.

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