May 2, 1961 D. M. PETERSON 2,982,026

ARCHERY SIGHT

Filed Feb. 20, 1959

Fig.1

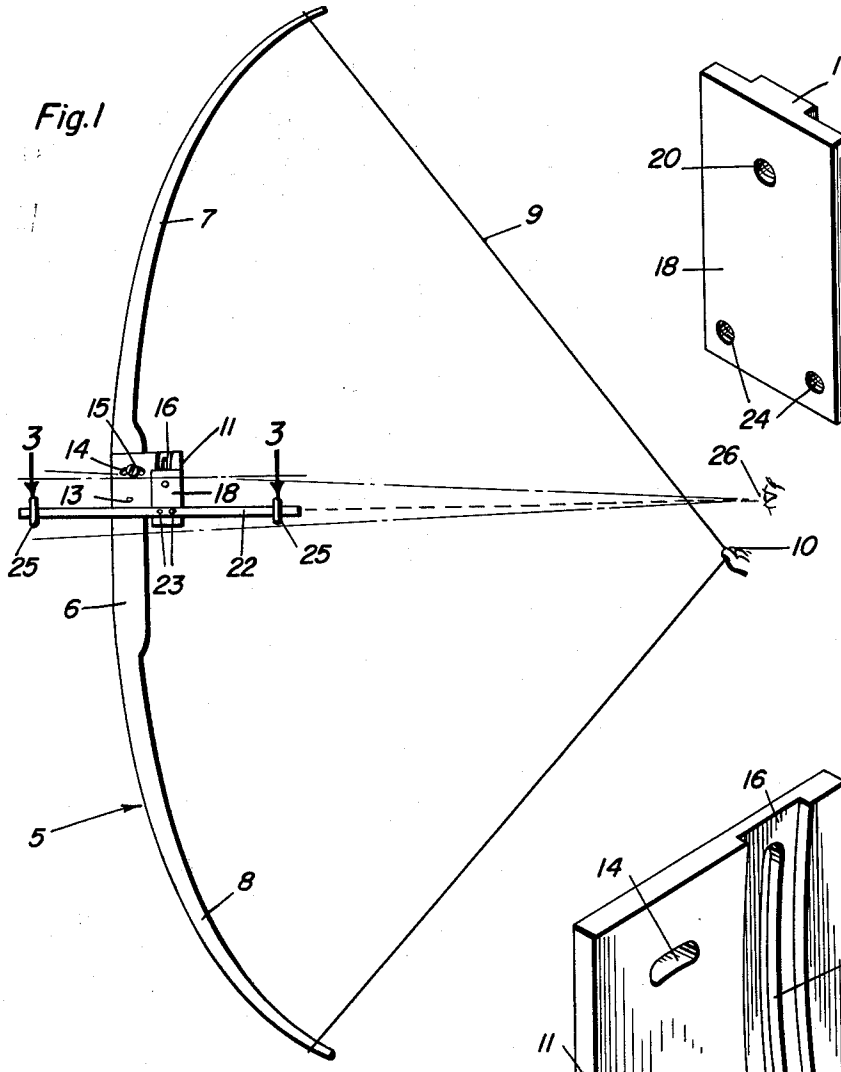
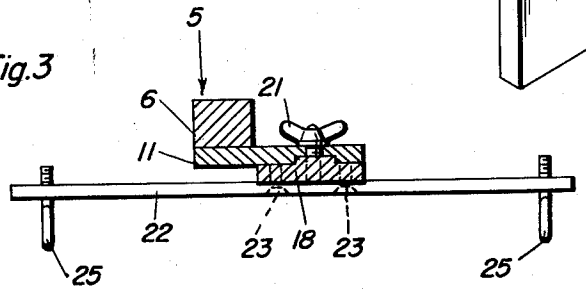


Fig.4

Fig.2

Fig.3



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United States Patent Office

2,982,026
Patented May 2, 1961

2,982,026

ARCHERY SIGHT

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Filed Feb. 20, 1959, Ser. No. 794,707

5 Claims. (Cl. 33—46)

This invention relates to new and useful improvement in archery or bow sights and has for one of its important objects to provide, in a manner as hereinafter set forth, a device of this character which may be expeditiously and accurately adjusted for different ranges.

Another very important object of the present invention is to provide a device of the aforementioned character wherein the peep sights, when said device is adjusted for various ranges, will always be in line with the eye without requiring the archer to shift or move his anchor point on the string.

Another important object of the invention is to provide an adjustable archery sight of the character described which may be readily mounted for use on a conventional bow without the necessity of materially altering said bow structurally.

Other objects of the invention are to provide an adjustable archery sight which will be comparatively simple in construction, strong, durable, compact, of light weight and which may be manufactured at low cost.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawing forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a view in side elevation, showing an adjustable archery sight embodying the present invention mounted on a bow;

Figure 2 is a perspective view of the attaching or mounting plate;

Figure 3 is an enlarged view in horizontal section taken substantially on the line 3—3 of Figure 1; and

Figure 4 is a perspective view of the slide.

Referring now to the drawing in detail, it will be seen that reference character 5 designates generally a conventional archery bow. The bow 5 includes the usual handle or grip 6, upper and lower limbs 7 and 8, respectively, and a string 9. Reference character 10 designates an anchor point on the string 9.

The embodiment of the present invention which has been illustrated comprises an attaching or mounting plate 11 of suitable material and dimensions which is mounted for rocking adjustment in a vertical plane on one side of the upper portion of the grip 6 of the bow 5. When so mounted the vertical attaching or mounting plate 11 extends rearwardly from the grip 6. Toward this end, the lower front portion of the plate 11 has formed therein an opening 12 for the reception of a pivot bolt or screw 13. The upper front portion of the attaching plate 11 has formed therein an arcuate,

elongated opening or slot 14 which accommodates a bolt 15. The arcuate slot 14 permits the plate 11 to be rockably adjusted on the bow.

The rearwardly projecting portion of the plate 11 has formed in one side thereof an arcuate groove 16. The groove or channel 16 extends between the upper and the lower edges of the plate 11, said groove or channel being open at its ends. The blade 11 is further provided, in the groove or channel 16, and conforming to the curvature thereof, with a slot 17.

Mounted on the plate 11 is an adjustable plate or slide 18. The adjustable plate or slide 18 is provided on one side with an integral, arcuate rib or tongue 19 which is operable in the groove or channel 16. Of course, the curvature of the rib or tongue 19 conforms to the curvature of the groove or channel 16 and the slot 17. The slide 18 has formed in its upper portion a threaded opening 20 for the reception of a wing screw 21 which is operable in the slot 17. The wing screw 21 frictionally secures the slide 18 in adjusted position on the attaching plate 11.

Mounted transversely on the lower end portion of the slide 18 is a bar 22. Screws 23 secure the bar 22 in position on the slide, said slide having in its lower end portion threaded holes 24 which receive said screws. Threadedly mounted for adjustment on the end portions of the bar 22 is a pair of laterally projecting, aligned peep sights 25.

It is thought that the use or operation of the device will be readily apparent from a consideration of the foregoing. Briefly, by loosening the bolt or screw 15 the complete assembly may be rockably adjusted as desired in a vertical plane on the bow 5. To adjust for different ranges, the screw 21 is loosened to permit the slide 18 to be moved upwardly or downwardly on the attaching plate 11. When thus adjusted or shifted the peep sights 25 are kept in alignment with the eye, as indicated at 26, without shifting the anchor point 10. The groove or channel 16, the slot 17 and the rib or tongue 19 are on an approximately 24 inch radius. The first described assembly adjustment allows the angle of the sight bar 22 relative to the bow to be varied should such angularity adjustment beyond the limits or range of the plate 18 be necessary as, for example, when said bow is habitually held by the archer well above or below the position shown relative to the eye.

The foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly, all suitable modifications and equivalents may be resorted to, falling within the scope of the invention as claimed.

What is claimed as new is as follows:

1. An archery bow sight comprising: an attaching plate including means adapted to removably and pivotally secure said plate to a bow intermediate its opposite ends for movement about an axis extending substantially at right angles to a plane containing said bow, said plate including means adapted to retain the latter in adjusted rotated positions relative to said bow, said plate including arcuate guide means extending in a plane at right angles to said axis of rotation, a slide, means mounting said slide on said plate for guided movement by said guide

means, means releasably securing said slide in adjusted positions on said plate, an elongated bar, means rigidly mounting said bar on said plate with said bar extending in a plane parallel to the plane containing said guide means, and at least two sight means spaced longitudinally of said bar.

2. The combination of claim 1 wherein said releasable adjusting means includes adjustable friction means.

3. The combination of claim 1 wherein said sight means each project laterally from the longitudinal axis of said bar.

4. The combination of claim 3 including means for adjusting the spaced position of at least one of said sight means relative to the longitudinal axis of said bar.

5. The combination of claim 4 wherein said adjusting means includes means for moving said one sight means in a direction extending at right angles to the plane of said guide means.

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