Oct. 4, 1949. G. S. OTT 2,483,928

ARROW CLAMP FOR ARCHERY BOWS

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Fig. 1.

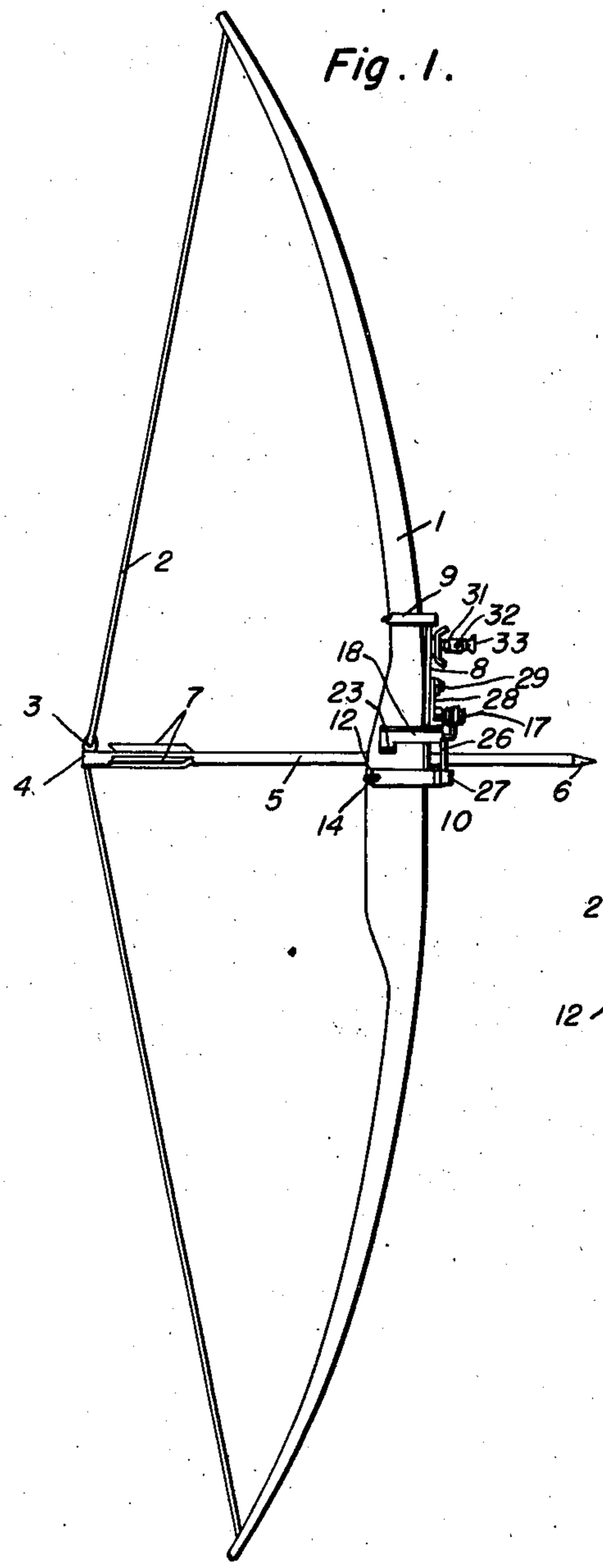

Fig. 4.

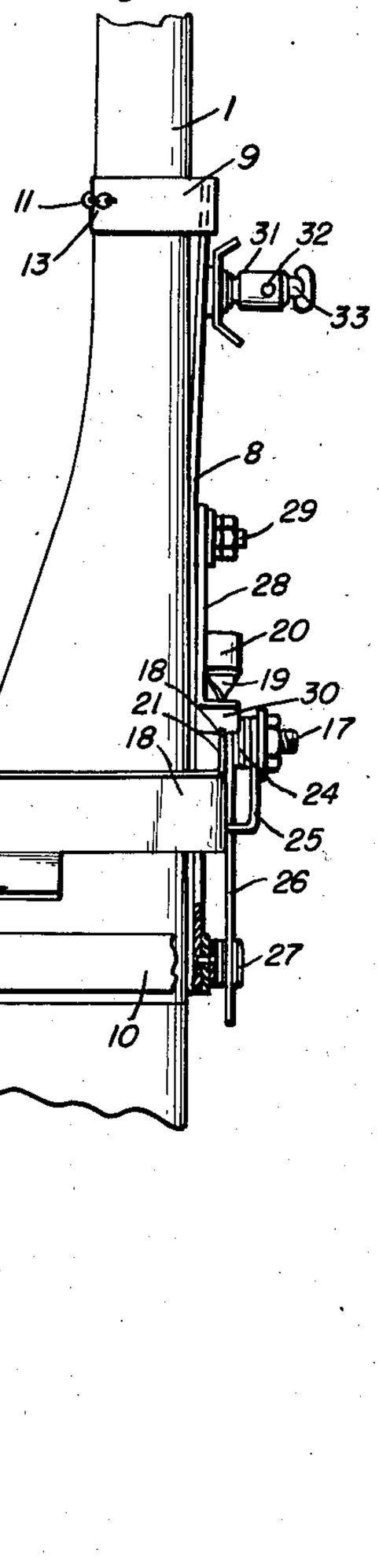

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Fig. 2.

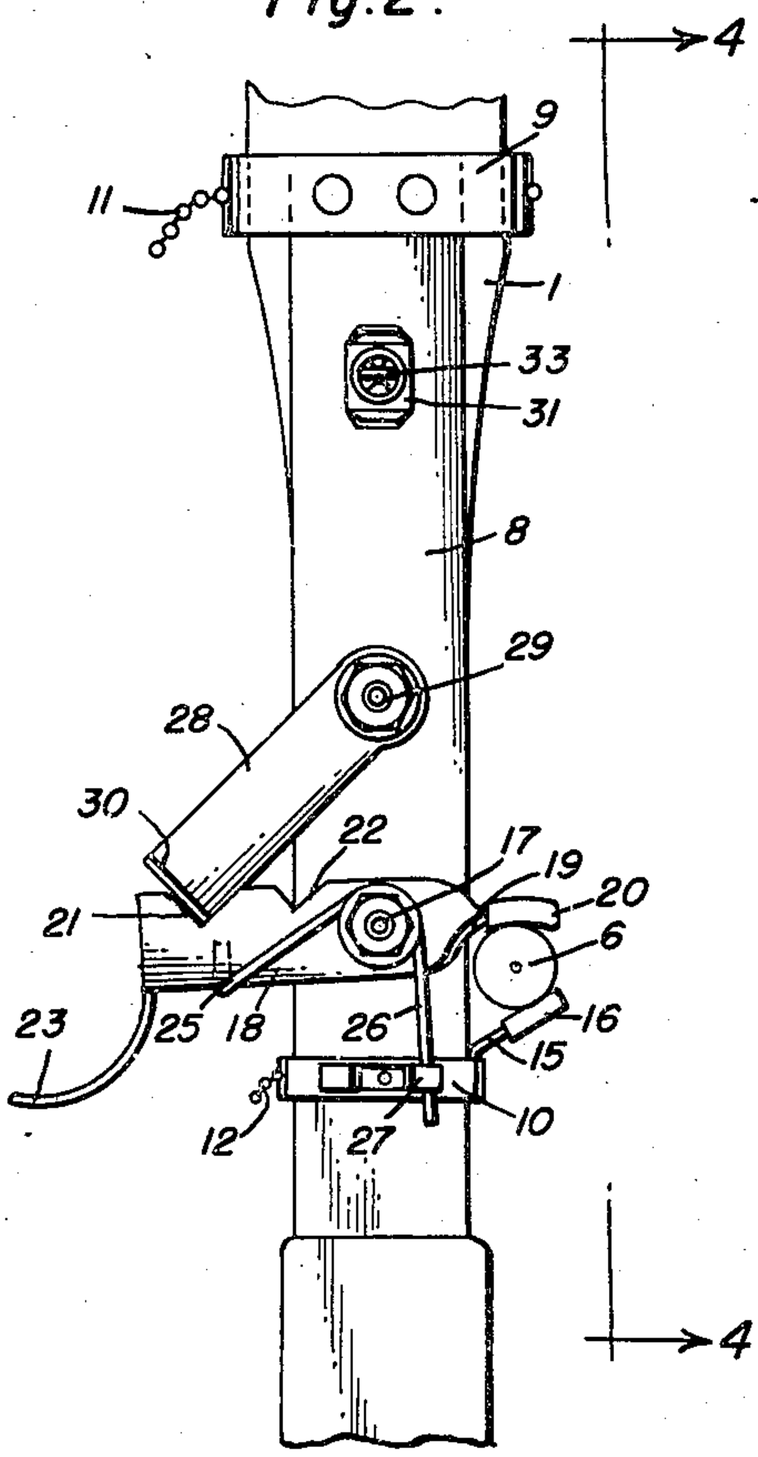


Fig. 3.

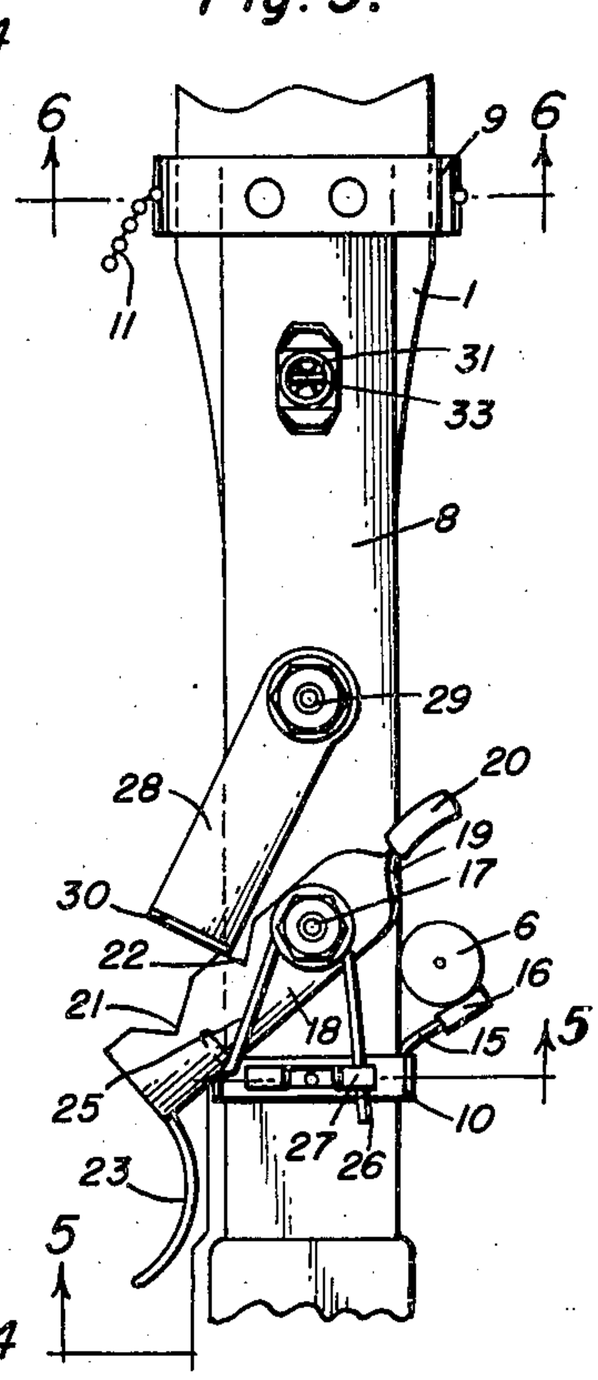


Fig. 5.

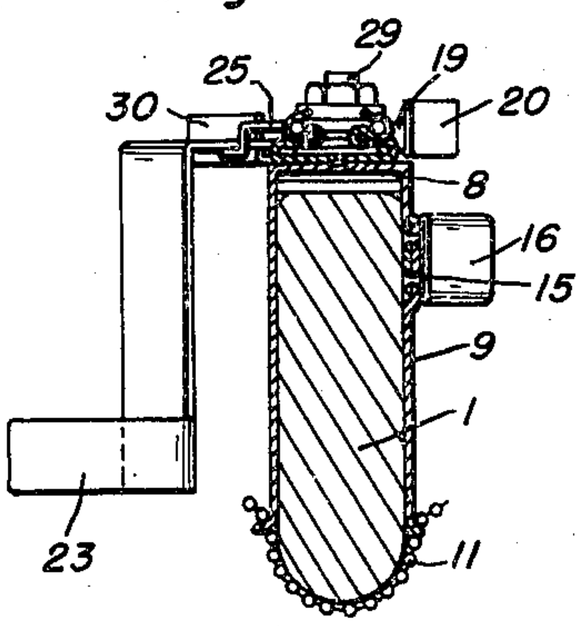
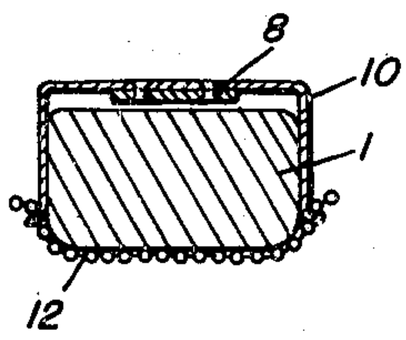


Fig. 6.



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ARROW CLAMP FOR ARCHERY BOWS

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9 Claims. (Cl. 124—23)

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This invention relates to improvements in archers' bows, and more particularly to an attachment for a bow which will support a partially drawn arrow until the time the arrow is to be shot, said attachment being then released, and the arrow drawn back its full length and shot.

An object of the invention is to provide an improved attachment for archers' bows which will be detachably supported upon a bow adjacent the handle thereof including an arrow guide rest, and a pivoted locking lever adapted to clamp against the forward end of an arrow when the same has been locked upon the bow string and partially drawn back, whereby when the arrow is to be shot, the locking lever will be released and the arrow drawn back to its maximum position and shot.

Another object of the invention is to provide an improved attachment for archers' bows including a body plate having means at its upper and lower ends for encircling a bow for locking the same upon the front edge thereof, said plate supporting a fixed arrow guide rest, a pivoted notched lock lever, and a pivoted lock catch which will drop into the notch closest to the pivot point or locking lever when the thumb lever is pressed down, thus holding the locking lever in open or shooting position. The purpose of the notch furthest from the pivot point on the locking lever is to keep the thumb lever from going too high out of reach of the thumb when no arrow is in place on the bow.

A further object of the invention is to provide an improved attachment for archer's bows which will support an arrow in partially drawn position for drawing and shooting when a lock lever is released by a thumb actuated trigger on a cooperating lock catch, said attachment being highly efficient in operation, and relatively inexpensive to manufacture and produce.

Other objects will appear as the description proceeds.

In the accompanying drawings which form a part of this application,

Figure 1 is a side elevation of an archer's bow showing the attachment supported thereon, and an arrow held thereby in partially drawn position;

Figure 2 is an enlarged front elevation of the attachment shown in position upon an archer's

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bow with parts thereof holding an arrows in secured or locked position;

Figure 3 is an enlarged front elevation of the attachment shown in position upon an archer's bow with the parts thereof in released position;

Figure 4 is a side elevation of the improved attachment shown in position upon an archer's bow;

Figure 5 is a sectional view taken on the line 5—5 of Figure 3; and

Figure 6 is a sectional view taken on the line 6—6 of Figure 3.

Like characters of reference are used throughout the following specification and the accompanying drawings to designate corresponding parts.

In carrying out the invention, there is provided an improved attachment adapted to be detachably clamped upon an archer's bow generally designated by the reference numeral 1. A bow string 2 is provided for the bow 1 and the same is wound with thread adjacent its central portion to form a nocking point 3 which will be disposed immediately above the nock 4 in the inner end of an arrow 5 when the same is engaged by the string 2 and is provided for preventing the arrow from flipping upwardly when the arrow is being held in position on the bow 1. A head 6 will be secured to the front end of the arrow 5, and the usual feathers 7 will be supported at the nock end of the arrow for assisting in keeping the arrow on a true line of path during its flight from the bow to the target (not shown).

The attachment forming the subject matter of the instant invention comprises a metal body plate 8 which supports the upper and lower U-shaped bow encircling clips or clamps 9 and 10, of a size of snugly fit across the front edge of a bow 1 and along the opposite sides thereof.

Ball chains 11 and 12 are provided for the clips or clamps 9 and 10, and are adapted to be received in the slots 13 and 14 formed in the rear outwardly flared ends of the said clips or clamps 9 and 10.

An arrow guide rest 15 is suitably attached to the lower clip or clamp 10 to extend upwardly and outwardly therefrom at a slight angle of inclination, and will support a rubber arrow cushioning band 16 on its outer extremity.

A forwardly extending pivot bolt 17 will be se-

cured to the body plate 3 at a point slightly above the arrow guide rest 15, and will pivotally support the transversely extending arrow lock lever 18. One end of the arrow lock lever 18 will be twisted to extend at right angles to the lever, and will terminate in an arrow engaging and clamping arm 19, upon which a rubber arrow cushioning band 20 will be disposed. The arrow engaging and clamping arm 19 will overlie the arrow guide rest 15 for clamping action upon an arrow 5 when placed on the guide rest 15.

A pair of laterally spaced locking notches 21 and 22 will be formed in the upper edge of the arrow lock lever 18 adjacent its opposite end, and a depending arcuate thumb engaging trigger 23 will be formed upon the extreme end of said arrow lock lever 18 in position for engagement with and operation by the thumb of a hand which supports the bow 1.

A tensioning spring 24 will be coiled about the pivot bolt 17, and will have one end extending outwardly and upwardly as at 25 to underlie the arrow lock lever 18, while the opposite end of said spring extends downwardly as at 26 to be received in the anchor clip 27 formed upon the lower clip or clamp 10 for normally exerting a resilient upward pressure upon the trigger end of the arrow lock lever 18.

An arrow lock catch 28 is pivotally supported upon a forwardly extending pivot bolt 29 supported upon the body plate 3 a slight distance above the pivot bolt 17, and has its outer extremity bent forwardly to provide a notch engaging arm extension 30 for selectively engaging and seating in either of the notches 21 and 22 formed in the upper edge of the pivoted arrow lock lever 18.

A forwardly extending sight holding member or housing 31 will be suitably supported upon the upper forward surface of the body plate 3, and will be apertured at 32 to receive the bolt or support for a sight (not shown), and a clamping or set screw 33 will be threaded into the outer end of said member or housing 31 for engaging and locking the sight support when positioned within said aperture 32.

In operation, an arrow 5 will have its nock 4 engaged by the bow string 2, and the arrow 5 will be disposed upon the guide rest 15, and the arrow drawn back part of the way, after which the arrow lock lever 18 will be moved on its pivot to clamp against the arrow, and the lock catch will be moved to seat in one of the notches 21 or 22, whereupon the arrow will be in readiness for drawing and shooting after the thumb engaging trigger 23 is moved downwardly.

From the foregoing description, it will be apparent that a bow equipped with the improved attachment will support a partially drawn arrow in readiness for instant shooting, and will enable more accurate shooting to be done, since the arrow will be all ready in proper position to be drawn and shot, rather than necessitating the placing of the arrow nock upon the bow string and the arrow against the side of the bow before the arrow is drawn and shot.

While the preferred embodiment of the instant invention has been illustrated and described, it will be understood that it is not intended to limit the scope of the invention thereto, as many minor changes in detail of construction may be resorted to without departure from the spirit of the invention.

Having described the invention, what is claimed as new is:

1. An attachment adapted to be secured to the handle of a bow comprising an elongated body plate, bow encircling supporting clamps at the upper and lower ends thereof, an arrow guide rest supported by said plate, an arrow lock lever pivotally mounted on said plate for cooperation with said arrow guide rest to secure the forward end of an arrow in partially drawn position when disposed on said guide rest, and an arrow lock catch pivotally mounted on said plate and engaging said lock lever for securing said arrow lock lever against pivotal movement.

2. An attachment adapted to be secured to the handle of a bow comprising an elongated body plate positionable upon the forward edge of a bow, bow encircling clamps at the upper and lower ends of said body plate, ball chains for securing said clamps, a laterally positioned arrow guide rest supported by said plate, an arrow lock lever pivotally mounted on said plate for cooperation with said arrow guide rest to secure the forward end of an arrow in partially drawn position when disposed upon said guide rest with the nock end of the arrow forcibly engaged by the string of the bow, and an arrow lock catch pivotally mounted on said plate and engaging said lock lever for securing said arrow lock lever against pivotal movement.

3. An attachment adapted to be secured to the handle of a bow comprising an elongated body plate, bow encircling supporting clamps on the upper and lower ends thereof, an anchor clip formed on the lower clamp, an arrow guide rest supported by said plate, an arrow locking lever pivotally mounted on said plate, an arrow lock catch pivotally mounted on said plate and adapted to engage said lock lever, and tension means secured on said plate and terminating in said anchor clip and on said locking lever and normally urging said locking lever into locking engagement with said lock catch.

4. The combination of claim 3 wherein said locking lever mounting means is a forwardly extending pivot bolt secured to said plate and said tension means includes a coil spring wound on said bolt and terminating in said anchor plate and on said locking lever.

5. An attachment adapted to be secured to the handle of a bow comprising an elongated body plate, bow encircling supporting clamps on the upper and lower ends thereof, an anchor clip formed on the lower clamp, an arrow guide rest supported by said plate, an arrow locking lever including spaced notches pivotally mounted on said plate, one end of said lever being turned at right angles and overlying said guide rest to engage an arrow therebetween, an arrow lock catch pivotally mounted on said plate and adapted to engage said lock lever, and tension means secured on said plate and terminating in said anchor clip and on said locking lever and normally urging said locking lever into locking engagement with said lock catch.

6. The combination of claim 5 wherein said lever includes a depending trigger for releasing the lever from said lock catch.

7. The combination of claim 5 wherein said locking lever mounting means is a forwardly extending pivot bolt secured to said plate and said tension means includes a coil spring wound on said bolt and terminating in said anchor plate and on said locking lever.

8. The combination of claim 5 wherein said lock catch includes an arm extension adapted to

engage said notches to secure said lever against pivotal movement.

9. The combination of claim 5 wherein said arrow guide rest extends upwardly and outwardly from said plate to receive an arrow thereon.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
228,302	Beard	June 1, 1880
1,526,176	O'Connell	Feb. 10, 1925
1,785,589	Mead	Dec. 16, 1930
1,792,401	Sorensen et al.	Feb. 10, 1931
2,351,103	Brown	June 13, 1944

FOREIGN PATENTS

Number	Country	Date
502	Great Britain	1914