Aug. 25, 1942. R. B. SPRINGER 2,294,052

ARCHERY BOW

Filed Sept. 19, 1941

Fig. 1.

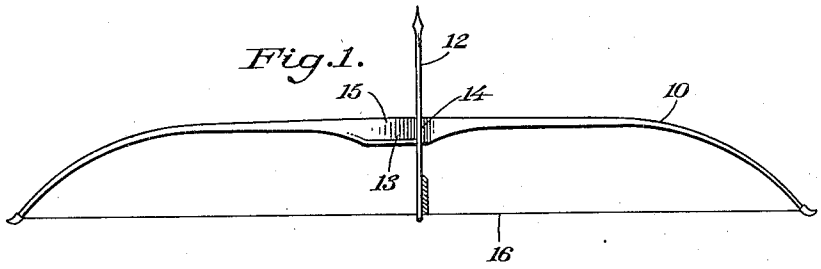


Fig. 2.

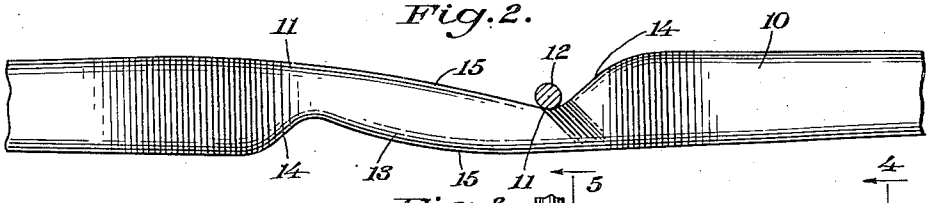


Fig. 3.

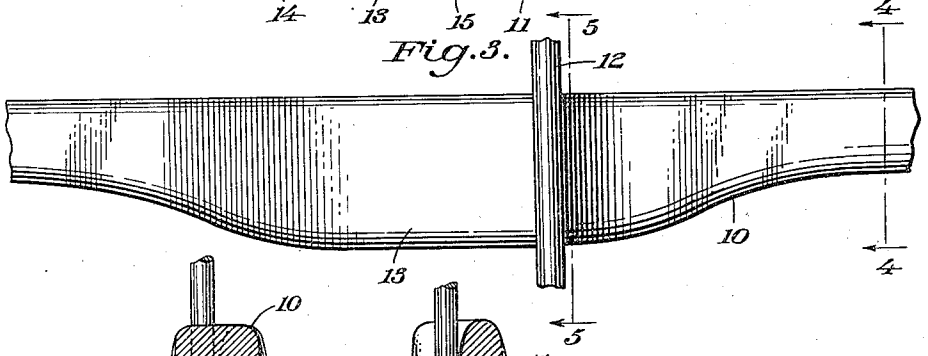


Fig. 4.

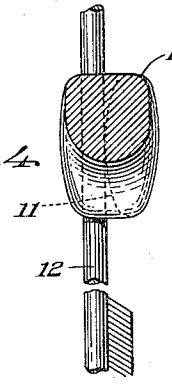


Fig. 5.

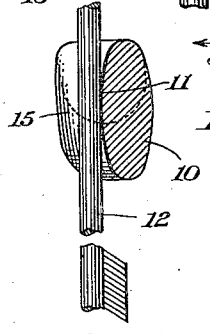
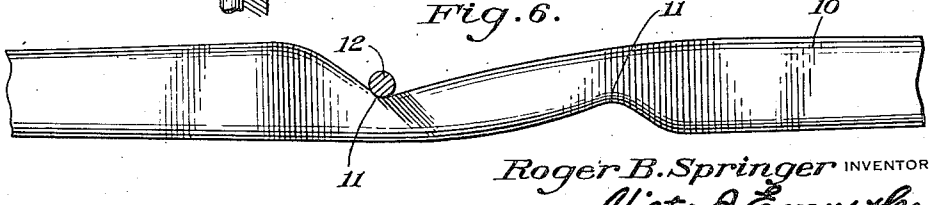


Fig. 6.



Roger B. Springer INVENTOR

BY Victor J. Evans & Co.

ATTORNEYS

Patented Aug. 25, 1942

2,294,052

UNITED STATES PATENT OFFICE

2,294,052

ARCHERY BOW

Roger B. Springer, Silver City, N. Mex.

Application September 19, 1941, Serial No. 411,587

1 Claim. (Cl. 124—23)

This invention relates to archery bows and has for an object to provide a bow having a central grip or handle which will permit the arrow, in aiming position, to be in a straight line from the string through the center of the bow, and promote the arrow leaving the bow in straight flight instead of initially bending itself around the bow before settling to straight flight.

A further object is to provide an archery bow having an arrow receiving depression provided with an abrupt sloping wall and a gently sloping wall, the contour of the depression centering the arrow on the longitudinal axis of the bow and also fitting the aiming hand so that the hand need not be twisted to fit the handle.

With the above and other objects in view the invention consists of certain novel details of construction and combinations of parts hereinafter fully described and claimed, it being understood that various modifications may be resorted to within the scope of the appended claim without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawing forming a part of this specification:

Figure 1 is a plan view of an archery bow constructed in accordance with the invention and showing an arrow in the depression.

Figure 2 is an enlarged fragmentary rear elevation of the bow showing the arrow in section.

Figure 3 is a fragmentary plan view showing the handle widened to strengthen the bow at the arrow receiving depressions and to provide an ample grip or handle.

Figure 4 is a cross sectional view taken on the line 4—4 of Figure 3.

Figure 5 is a cross sectional view taken on the line 5—5 of Figure 3.

Figure 6 is a fragmentary rear elevation showing a bow adapted for lefthand shooters.

Referring now to the drawing in which like characters of reference designate similar parts in the various views, 10 designates an archery bow provided with recesses 11 at spaced points on opposite sides of the center to receive an arrow 12 and to provide a grip or handle 13 between the recesses.

Each recess is provided with an abruptly sloping wall 14 and with a gently sloping wall 15, the arrow being received at the base of the gently sloping wall so that the shooter's hand may be closed upon the grip and support the arrow in aiming position in the conventional manner. As best shown in Figure 3 the grip 13 is widened between the arrow receiving recesses to reinforce the bow against breaking at the recesses of the bow and also to permit the aiming hand of the shooter to comfortably grip the handle without any twisting of the hand.

The modified form of the invention shown in Figure 6 is designed for left hand shooters and in this form of the invention the only difference is, that the recesses 11 are reversed from the left to the right side of the bow shown in Figure 2 and accordingly the structure has been given the same reference numerals as the structure shown in Figure 2.

In operation it will be seen by referring to Figures 1, 4 and 5 that the recess 11 disposes the arrow 12 in a straight line from the bow string 16 through the axis of the bow, in aiming position, consequently when the arrow leaves the bow it is guided in straight flight and need not bend itself around the edge of the bow before settling to straight flight as is ordinarily the case.

From the above description it is thought that the construction and operation of the invention will be fully understood without further explanation.

What is claimed is:

An archery bow provided with a flat substantially rectangular centrally disposed handle of increased width over the remainder of the bow to strengthen the bow at the center thereof, said handle having an arrow receiving depression in one side face provided with an abrupt sloping wall and a gently sloping wall extending to the longitudinal axis of the bow, the walls of the depression being adapted to dispose the arrow to extend across the longitudinal axis of the bow in a straight line from the bow string and also being adapted to fit the aiming hand so that the hand need not be twisted to fit the handle.

ROGER B. SPRINGER.