Feb. 25, 1930. C. E. HOLLIDAY 1,748,651

SHOOTING DEVICE

Filed April 5, 1928

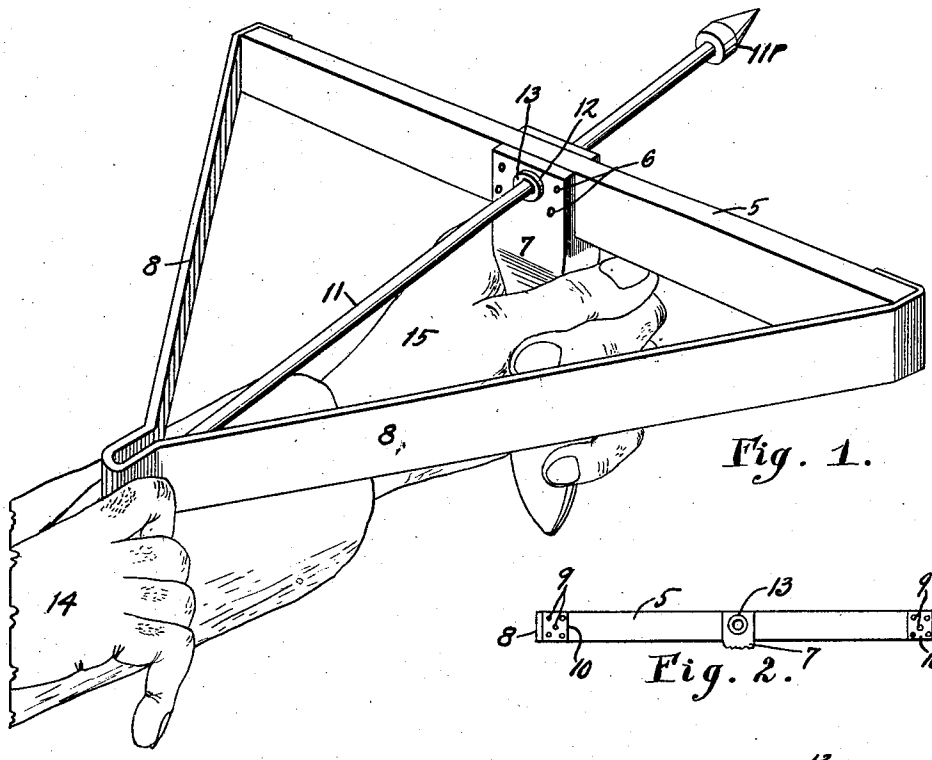


Fig. 1.

Fig. 2.

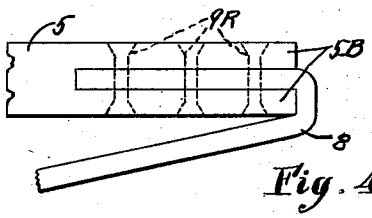


Fig. 4.

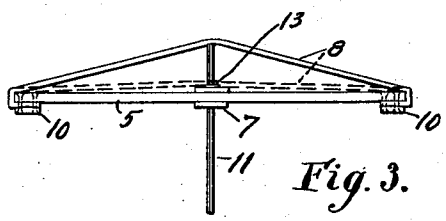


Fig. 3.

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UNITED STATES PATENT OFFICE

CLARENCE E. HOLLIDAY, OF ST. PAUL, MINNESOTA

SHOOTING DEVICE

Application filed April 5, 1928. Serial No. 267,506.

My invention relates to a shooting device which for convenience of description might more aptly be designated as an arrow shooter particularly adapted for use in contests of marksmanship by either young or old. The device was originally designed for use by children and the darts or arrows made with soft points. Other features and advantages will be fully set forth in the following specification reference being had to the accompanying drawing, in which,—

Fig. 1 is a perspective view of my device in operation with its elastic element and a dart drawn to position for making a shot.

Fig. 2 is a front elevation, in reduced scale, showing the main bar of my device and a modification in the means of holding the elastic element.

Fig. 3 is a top view of Fig. 2 showing the rear end of a dart pressed against the elastic element rearwardly.

Fig. 4 is an enlarged end view of the main bar of my device showing a modified means of holding the elastic element.

Referring to the drawing by reference numerals 5 designates a rigid elongated bow member, preferably a piece of hardwood at the center of which is suitably fixed as at 6 a handle 7 extending downwardly. The upper end of said handle may be simply slitted for receiving the bow 5 as shown. 8 is a suitable flat and elongated elastic element, preferably rubber with its opposite ends nailed, as at 9 to the front and opposite end parts of the bow 5 and preferably lightly stretched so as to be pressed against the rear side of member 5, see dotted line position in Fig. 3. The said end parts of member 8 may also be held between the bifurcated end parts 5B of bar 5 (see Fig. 4) secured as with rivets 9R; or a small block 10 may be used to clamp each end of member 5 to the front of bow 5 by means of the rivets or equivalent means 9 shown in Figs. 2 and 3.

11 represents either an arrow or dart, in the former of which the point 11P may be a sharp metal piece adapted to stick in a target (not shown) but as a dart the said point 11P is preferably rubber or some yielding material. 12 is a central transverse bore through bow 5 and handle 7 and in which bushing 13 is frictionally retained. Said bushing serves as a guide for the shank of dart 11 when the latter is being projected from the device.

In the use of my device the butt or rear end of projectile 11 is inserted from the front into the bore of bushing 13 rearwardly and thus pressing and stretching member 8 rearwardly at its center approximately to position shown in full lines in Fig. 3. Then the operator pinches the rubber against opposite sides of the projectile, as between his thumb and forefinger of one hand 14 (see Fig. 1), the other hand 15 meanwhile grasping handle 7 as shown. Then hand 14 is drawn back straight from the bow as far as desired or until head 11P stops against the bow. The operator then aims at a target and releases the band 8 which snaps against the bow and projects the arrow toward the target. When this device is used as a toy, applicant prefers to have the tips 11P of rubber in order not to pierce or cut a target. Before shooting, an operator may rub the point 11P in a powdered, colored chalk or equivalent, for making a mark on the target.

I claim:

In an arrow shooting device including a rigid elongated bow, a handle fixed to the central part and extending at right angles from said bow, a bore provided through said handle and bow intermediate the ends of the latter; an elastic band fixed to the bow ends, under tension, and in position to normally cover one end of said bore, a shanked projectile insertible in said bore and to press the elastic band away from the bow to permit the band to be grasped with said shank and subsequently to distend the elastic and draw the projectile for shooting.

In testimony whereof I affix my signature.

CLARENCE E. HOLLIDAY.