

March 29, 1932.

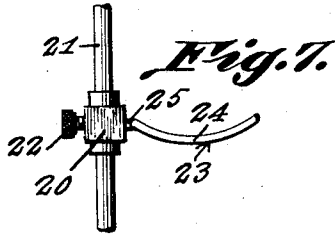
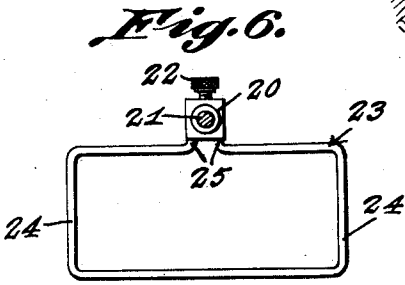
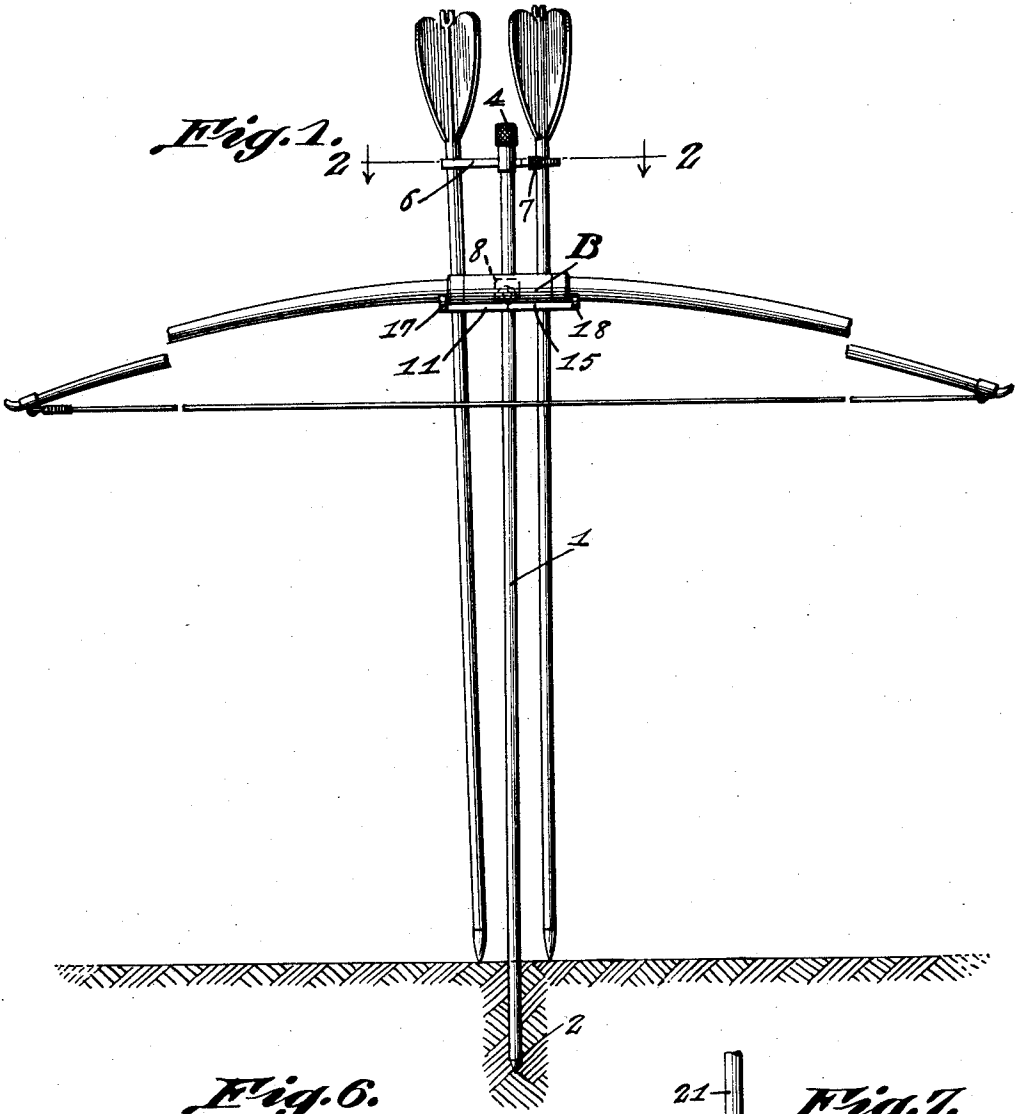
H. J. SLATER

1,851,779

COLLAPSIBLE BOW AND ARROW STAND

Filed Feb. 5, 1930

2 Sheets-Sheet 1



H. J. Slater, INVENTOR
BY Victor J. Evans
ATTORNEY

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2 Sheets-Sheet 2

Fig. 2.

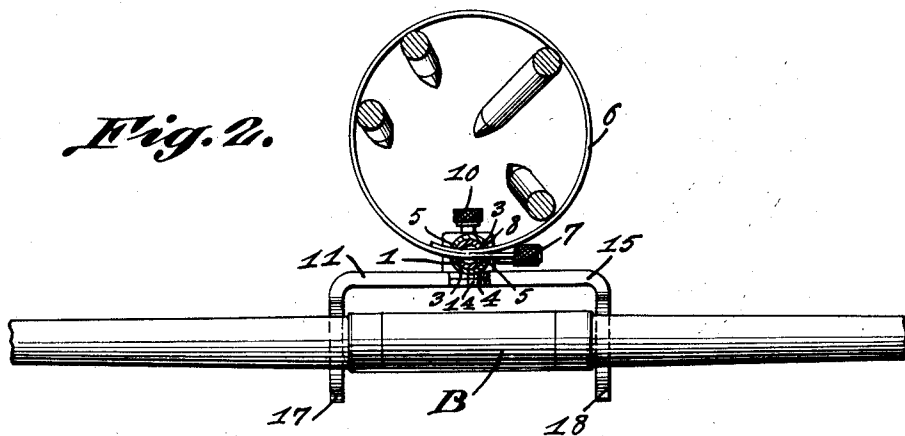


Fig. 3.

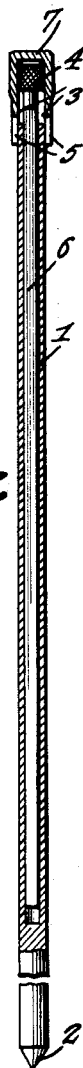


Fig. 4.

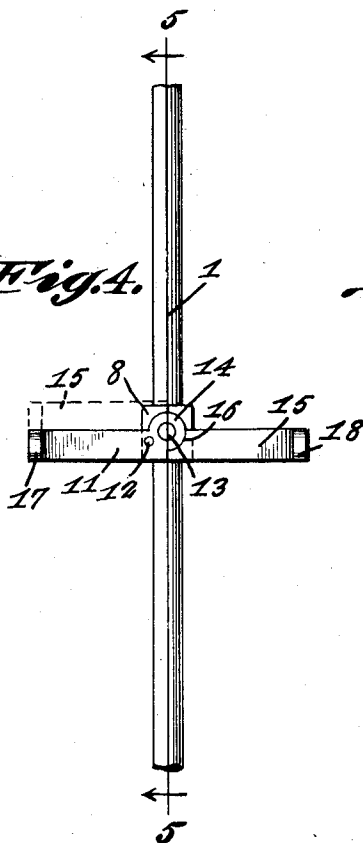
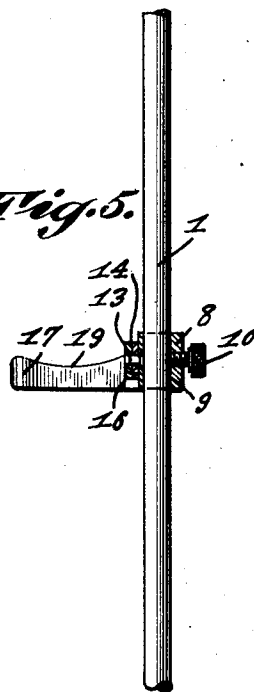


Fig. 5.



H. J. Slater, INVENTOR
BY Victor J. Evans
ATTORNEY

UNITED STATES PATENT OFFICE

HAROLD J. SLATER, OF BRISTOL, RHODE ISLAND

COLLAPSIBLE BOW AND ARROW STAND

Application filed February 5, 1930. Serial No. 426,160.

This invention relates to a novel stand for use by archers during target practice, and has as its general object to provide a stand, the use of which will effect a very considerable economy in the cost of replacement of arrows and bows.

It is a well known fact that it is the general custom of archers on an out-door range, to lay their arrows, which are not in use, on the ground and to even lay their bow or bows on the ground, when temporarily not being used, with the result that they are liable to be stepped upon and bent or broken, therefore, the present invention has as a further object to provide a stand by the use of which a bow may be supported in horizontal position, and a considerable number of arrows may be supported in upright position so that the stand constitutes a means whereby both the bow and arrows may be supported in such position as to be available for use without the necessity of stooping to pick them from the ground.

Another object of the invention is to provide an arrow stand so constructed that the stand or upright thereof may constitute also a holder or container for the part of the device which is to support the arrows in upright position, so that the device may be compactly arranged with its parts in knocked-down assembly and carried in the arrow case ordinarily employed and taking up less room than one of the arrows.

Another object of the invention is to provide a bow stand in which the bow supporting member may be removed from the stand and folded so that the two parts, when not in use, and stored away, will occupy but little space.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claims.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a view in elevation of a com-

bined bow and arrow stand embodying the invention.

Figure 2 is a horizontal sectional view on the line 2—2 of Figure 1 looking in the direction indicated by the arrows.

Figure 3 is a detail vertical sectional view through the standard of the device, the arrow supporting means being housed therein.

Figure 4 is a detail view in elevation, illustrating one form of bow support embodying the invention, the bow supporting unit being shown in full lines in position for use and in dotted lines in folded position.

Figure 5 is a vertical sectional view on the line 5—5 of Figure 4 looking in the direction indicated by the arrows.

Figure 6 is a plan view illustrating a modified form of bow holder.

Figure 7 is a view in side elevation of the holder shown in Figure 6.

The stand embodying the invention comprises a standard which is indicated by the numeral 1, and which is preferably of hollow formation except at its lower end which is pointed or tapered as at 2 to adapt the same to be readily inserted or driven into the ground a sufficient distance to support the standard in upright position. For a purpose to be presently explained, the standard is formed, in its upper end, with diametrically oppositely located slots 3, and a cap member which is indicated by the numeral 4, is fitted over this end of the standard and is likewise formed with diametrically oppositely located slots indicated by the numeral 5.

One portion of the device is intended for the support of arrows, and the other for the support of a bow and, referring first to the arrow support, the same comprises a leaf spring which is indicated by the numeral 6, and which is provided at one end with a knurled finger knob 7 which is of a diameter to adapt it to fit within the cap 4. In utilizing the arrow holder, the spring 5 is bowed to substantially annular form as shown in Figure 2 and with its end portions overlapped in the manner shown in this figure, the cap member 4 having been removed from the standard 1, and the overlapped portions of the spring are therefore readily insertible in

the slots 3. The cap 4 is then fitted to the upper end of the standard and, if necessary, rotated so as to bring its slots 5 into registration with the upper ends of the slots 3, and the cap member is then shifted downwardly so that overlapped portions of the spring will then be engaged likewise in the slots 5, and inasmuch as the cap 4 will be held frictionally in place, it will be evident that the bowed spring constitutes a very effective means for supporting the arrows in upright position with their pointed ends or tips disposed upon the ground and their upper portions engaged within the bounds of the spring.

The standard 1 is, as before stated, of hollow form and the spring 6 will be formed of a width slightly less than the interior diameter of the standard, so that the spring, when separated from the standard, may be slid into the standard, and the cap member 4 then applied to the upper end of the standard so as to close this end and likewise anchor the finger piece 7 of the said spring.

The bow holder, in the embodiment shown in Figures 1, 2, 4 and 5 of the drawings, comprises a collar 8 which is preferably of rectangular form and provided with a bore 9 whereby it may be slidably fitted upon the standard 1, a set screw 10 being threaded through the rear side of the collar and adjustable to bind against the standard to hold the collar in its positions of vertical adjustment. An arm 11 is fitted to the flat side of the collar 8 which is opposite the side at which the set screw 10 is located, and a pin 12 is fitted through the inner end of this arm and into the collar and a rivet 13 is secured through an opening formed centrally in an ear 14 formed integral with the said inner end of the arm 11, and this rivet extends through the inner end of another arm which is indicated by the numeral 15, and which is recessed as at 16, at its inner end, to accommodate the ear 14, the arm 15 being adapted to be swung about the pivot 13 to assume the folded position shown in dotted lines in Figure 4 of the drawings. The arms 11 and 15 are provided at their outer ends with right angularly forwardly extending supporting portions indicated respectively by the numerals 17 and 18, and each of these portions has its upper edge of arcuate form, or in other words, curved downwardly from end to end, as indicated by the numeral 19, so that the bow may be disposed to rest upon these members 17 and 18 in the concave upper sides thereof with its string extending beneath the said members 17 and 18, the said bow being indicated by the reference letter B and, as illustrated in Figure 2, the bow supporting unit is located at that side of the upright 1 opposite the side at which the arrow supporting unit is located, so that there will be no interference with either unit on the part of the other.

Figures 6 and 7 of the drawings illustrate a modification of the invention, and in this embodiment a preferably rectangular or cubical collar 20, corresponding to the collar 8 of the previously described form, is fitted to the upright or standard which is indicated by the numeral 21, and held in place by a set screw 22 corresponding to the set screw 10, a rectangular frame of relatively heavy resilient wire, indicated by the numeral 23 has its end members 24 bent to curved form so as to properly seat the bow and in the same manner as the concave upper edges 19 of the supporting members 17 and 18 of the previously described embodiment, the front member of the frame 23 is integral, but the rear member is divided between its ends and has its extremities turned rearwardly at right angles as indicated by the numeral 25, and welded or otherwise secured to the collar 20, or these extremities may be fitted in sockets in the said collar so as to enable the frame and collar to be separated from each other.

What I claim is:—

1. An arrow stand comprising a standard having a diametrical slot in its upper end, a cap member removably fitted to the said end of the standard and also provided with a diametric slot, and an arrow supporting member comprising a leaf spring to be bowed and fitted at its overlapped ends in the slots in the standard and cap member.
2. An arrow stand comprising a standard having a diametric slot in its upper end, a cap member removably fitted to the said end of the standard and also provided with a diametric slot, and an arrow supporting member comprising a leaf spring to be bowed and fitted at its overlapped ends in the slots in the standard and cap member, the said standard being hollow and open at its upper end and closed and pointed at its lower end, and the said spring being of a width less than the diameter of the bore of the standard, whereby the spring may be stored within the standard, when not in use.
3. An arrow stand comprising a standard having a diametric slot in its upper end, a cap member removably fitted to the said end of the standard and also provided with a diametric slot, and an arrow supporting member comprising a leaf spring to be bowed and fitted at its overlapping ends in the slots in the standard and cap member, the said spring being provided at one end with a head.
4. A bow support comprising a standard, a collar adjustably mounted upon the standard, means for holding the collar in its positions of adjustment, an arm extending from the collar at one side thereof, an arm extending from the collar at the other side thereof, the first mentioned arm being fixed with respect to the collar, means pivotally connecting the second mentioned arm with the collar whereby to provide for folding of

the second mentioned arm to position over-
lying the first mentioned arm, and extensions
at the outer ends of the arms having concave
upright sides for seating a bow disposed
5 thereon.

5. A combined arrow and bow stand com-
prising a standard, an annular arrow support
mounted upon the standard at the upper end
thereof for supporting the arrows in an up-
10 right position, said annular arrow support
extending horizontally through the standard
at one side thereof, a member frictionally en-
gaging the upper end of said standard for
retaining the arrow support thereon, and a
15 bow supporting member at the other side of
the standard having a concaved bow support-
ing portion to seat a bow disposed thereon
and support the same in horizontal position.

In testimony whereof I affix my signature.

HAROLD J. SLATER.