Oct. 5, 1965 C. E. WATSON 3,209,442

BOW STRINGING DEVICE

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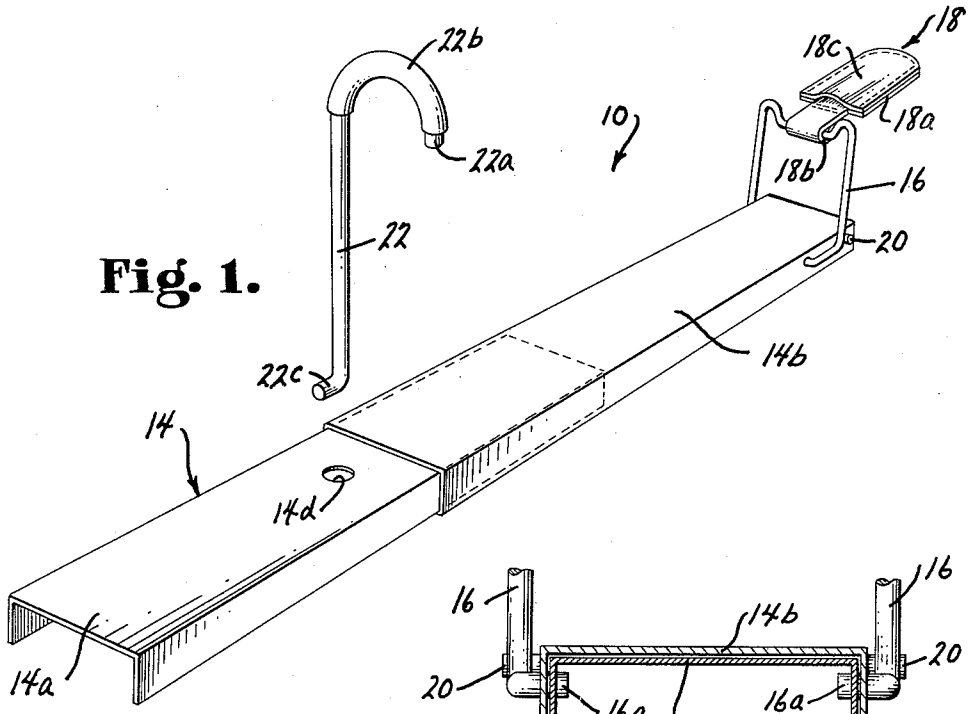


Fig. 1.

Fig. 3.

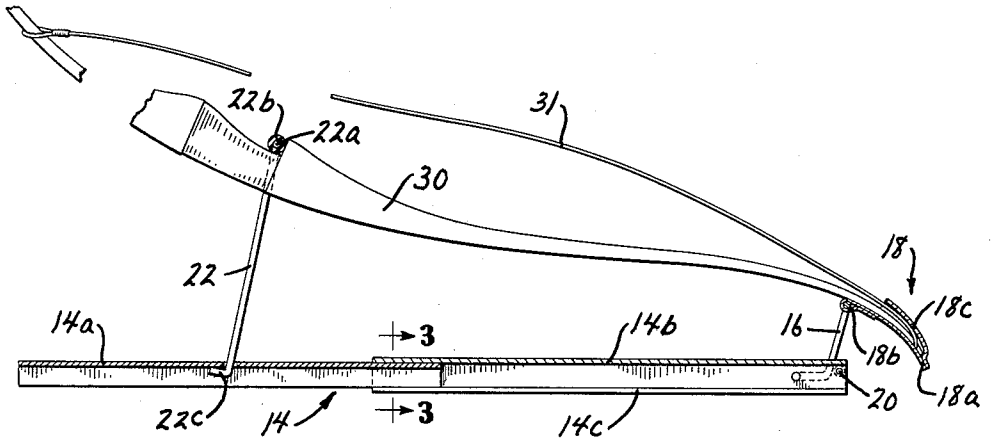


Fig. 2.

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BOW STRINGING DEVICE

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The present invention relates to a bow stringing device, and more particularly to a new and novel bow stringer which is adapted to receive any size bow, and which, at the same time, provides effective mechanical advantage in use.

As is known, the stringing of a bow typically used in archery requires a considerable effort on the part of the user, particularly for a person of limited strength. Many prior techniques have been employed in such stringing operation, including, by way of example, the use of a bumper of an automobile to secure the desired leverage. Not only are these prior approaches clumsey, but, additionally, an element of danger is also present, should the user's hand slip during the stringing operation. Moreover, it is also important that stringing be achieved without damaging the bow.

By virtue of the instant invention, the applicant has provided a new and novel bow stringer which is readily collapsible to a compact size for transporting, and which, at the same time, is highly effective in use at any desired location without the need for supplemental equipment. The instant bow stringer is defined by a generally telescopic type of base member having a pivotal end bracket which positions a pocket-like member on a portion thereof. A link or hook is loosely received in an opening in another portion of the base member, where, in use, a part of the bow is encircled by such link or hook, while one end of the bow is inserted into the aforesaid pocket-like member. After positioning has taken place, the feet of the user are placed on the base member and the free end of the bow is urged upwardly, which movement permits the ready stringing of the bow.

Accordingly, a principal object of the present invention is to provide a new and novel bow stringing device for archery.

Another object of the present invention is to provide a new and novel bow stringer which is capable of effective use with any size bow.

A further and more general object of the present invention is to provide a new and novel collapsible bow stringer which provides high mechanical advantage, and, hence, ease in use.

Other objects of the present invention will become more apparent from the following description, taken in conjunction with the accompanying drawing, wherein,

FIG. 1 is a perspective view of a bow stringer in accordance with the instant invention;

FIG. 2 is a view in side elevation, partly in vertical section, of the bow stringer of FIG. 1; and,

FIG. 3 is a view in vertical section of the base member forming part of the invention, taken at line 3—3 of FIG. 2 and looking in the direction of the arrows.

For the purposes of promoting an understanding of the principles of the invention, reference will now be made to the embodiment illustrated in the drawing and specific language will be used to describe the same. It will nevertheless be understood that no limitation of the scope of the invention is thereby intended, such alterations and further modifications in the illustrated device, and such further applications of the principles of the invention as illustrated therein being contemplated as would normally occur to one skilled in the art to which the invention relates.

Referring now to the figures, the applicant's new and

novel bow stringer **10** comprises a base member **14** defined by telescopic sections **14***a* and **14***b*, which, in the preferred embodiment of the invention, are made from light weight steel. As should be apparent from the figures, sections **14***a* and **14***b* are typically maintained in a slidable, nesting arrangement by the inwardly extending flanges **14***c* on section **14***b*.

Disposed proximate one end of section **14***b* of the base member **14** and bridging same is an upwardly extending pivotal bracket **16** which has free ends **16***a* positioned in openings in the side walls of section **14***b*. The bracket **16** can assume various configurations, as, for example, that illustrated in the figures, where a portion thereof receives a pocket-like member **18**, as well as defines the lateral movement of the latter. As shown, a stop **20** extends from each side of the section **14***b* of the base member **14** to limit the movement of the bracket **16**, in one direction, to its operative position.

The pocket-like member **18** typically has a bottom part **18***a* with a hem-like end **18***b* through which the bracket **16** is threaded, and an upper part **18***c* stitched thereto to define a pocket which receives one end of the bow. The pocket-like member **18** may be made from leather or like material.

The section **14***a* of the base member **14** has an opening **14***d* therein which is adapted to loosely receive the end of a link or hook **22**, where such link or hook **22** is defined by an arced end portion **22***a* typically covered by rubber **22***b* or like cushioning material for protective purposes for the bow. As should be apparent, the portion **22***c* of the link **22** which extends into the opening **14***d* in the section **14***a* of the base member **14** is angled so that the link **22** cannot be unintentionally removed from the opening **14***d*.

In use, any size bow **30** may be employed with the instant bow stringer **10**, with the only modification in the latter being the relative movement of the sections **14***a* and **14***b* of the base member **14** with respect to each other. It might be noted that prior to assembly, and for reasons of convenience, the section **14***a* is normally positioned beneath the section **14***b*, while the bracket **16** is so positioned that the top portion thereof is resting on the upper surafce of section **14***b*. Additionally, the hook or link **22** is removed and typically disposed within the space defined by the downwardly extending portions on the sections **14***a* and **14***b*.

In any event, and after the components of the bow stringer are positioned in accordance with the figures, the bow **30** is placed so that one end thereof is received in the pocket-like member **18**, with the mid-portion of the bow being disposed beneath the arced end **22***a* of the hook or link **22**. Thereafter, the free end of the bow **30** is moved upwardly, so that the bow string **31** can be positioned, where the latter operation is achieved with the feet of the user disposed on the base member **14**. The latter is important in the practice of the invention to provide a steadying force for the bow stringer during use, and to achieve the effective mechanical advantage which the instant invention affords.

As to the bow string **31**, it should be observed that one end thereof is positioned prior to placing the corresponding bow end within the pocket-like member **18** of the bow stringer **10**, so that the stringing operation entails only the positioning of the free end of the bow string **31** onto the free end of the bow **30**.

From the preceding, it should be apparent that the applicant herein has provided a new and novel bow stringer which may be effectively used at any desired location without the necessity of supplemental equipment, and which, at the same time, is readily adaptable for use with any size bow. Additionally, the bow stringer may be easily collapsed to make same compact for portability.

It should be understood that the instant bow stringing device affords an important mechanical advantage during use because of the novel positioning of its components.

In any event, the above-described bow stringer is susceptible to various changes within the spirit of the invention. For example, additional openings may be made in section **14***a* of the base member **14** to even more selectively receive the link or hook **22**, and, of course, changes in proportioning can be effected. Additionally, the base member may be defined as a single unit, or, in contrast, by more than two sections, viz. two sections thereof may slide with reference to each other on a third section. Moreover, the pocket-like member **18** may be integrated more fully with the bracket **16** for equally effective practice of the invention. Thus, the above description should be considered illustrative and not as limiting the scope of the following claims:

I claim:

1. A collapsible stringing device for a bow comprising a foot-positioned base member having at least a first portion and a second portion, said first portion and said second portion of said base member being slidable with respect to each other, a bracket pivotally disposed on said first portion of said base member, stop means disposed on said first portion of said base member adapted to maintain said bracket in an operative position, a receiving member for one end of said bow disposed on said bracket, and a removable link extending from said second portion of said base member having a curved free end adapted to encircle a portion of said bow.

2. A stringing device for a bow comprising an elongated foot supporting base member having a lower ground engaging surface and an upper surface, a pocket to receive one end of said bow, a bracket pivotally mounted to said member for supporting said pocket above said upper surface on one portion of said base member, and a removable bow engaging member extending upwardly from another portion of said foot supporting base member to encircle a portion of said bow when said one end is received by said pocket.

3. A stringing device for a bow comprising, a base member having a ground engaging lower surface and an upper surface and having a first section and a second section forming a longitudinal extension with respect to said first section, a bracket pivotally disposed on said first section, means disposed on said base member for maintaining said bracket in an operative position generally upwardly and normal to said upper surface, a receiving member for one end of said bow disposed on said bracket above said upper surface, said second section of said base member having at least one opening therein, a bow engaging member, and means including a hooked portion of said member removably securing said bow engaging member to said other section at said opening.

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