

UNITED STATES PATENT OFFICE

2,256,946

BOWSTAVE OR THE LIKE

Howard Hill, North Hollywood, Calif.

Application May 27, 1939, Serial No. 276,177

1 Claim. (Cl. 144—309)

My invention relates generally to the production of bowstaves and the like, and particularly to production of bowstaves from bamboo wood, and an important object of my invention is to provide arrangements of the character indicated in a simple and more efficient manner, so as to produce structurally and functionally superior bowstaves and the like.

Another important object of my invention is to provide a laminated bamboo bowstave of the character indicated in which the laminations possess the natural curve of the bamboo from which the lamination is cut, and wherein the laminations are tapered toward the opposite ends thereof from a middle point.

Other important objects and advantages of my invention will be apparent from a reading of the following description taken in connection with the drawings, wherein for purposes of illustration I have set forth a preferred embodiment of my invention.

In the drawings:

Figure 1 is a general side elevational view showing a bowstave produced in accordance with the present invention.

Figure 2 is a left hand elevational view of Figure 1.

Figure 3 is an edge or side elevational view of one of the laminations.

Figure 4 is a fragmentary elevational view of the outer side of a bamboo strip before conditioning to become a lamination in accordance with the present invention.

Figure 5 is a side elevational view of a bamboo cane, exhibiting in dotted lines the manner of separating a strip such as that shown in Figure 4 from the cane.

Figure 6 is a top plan view of Figure 5 showing the lines of separation of the strip.

Figure 7 is a horizontal sectional view taken through Figure 4 and showing the pith of the strip still in place.

Figure 8 is a view similar to Figure 7 showing the pith removed.

Figure 9 is a horizontal sectional view taken through Figure 1 approximately on the line 9—9 and looking upwardly in the direction of the arrows and showing three laminations secured together.

Referring in detail to the drawings, the numeral 5 generally designates a bow stave or the like in accordance with the present invention which may be composed of several laminations such as the laminations designated by the letters *a*, *b*, and *c* which are glued together as shown. Each lamination is initially in the form of a strip 6 cut as a segment as indicated in Figures 5 and 6 from the bamboo cane 7, so as to have naturally the curvature of the cane. As the strip is taken from the cane it has on its inner side the pith layer 8 which in accordance with the present invention is removed so that the strip assumes the form shown in Figure 8. The concave side of the strip in the intermediate form shown in Figure 6 is then tapered from a middle point as indicated by the numeral 9 in Figure 3 toward the opposite ends thereof so as to reach a minimum thickness at the end points designated respectively by the numerals 10 and 11. The series of strips such as the strips converted into laminations *a*, *b* and *c* are then nested together as indicated in Figure 9, the proper taper having been applied to each lamination, and the laminations then glued together so as to form the bow stave.

Although I have shown and described herein a preferred embodiment of my invention, it is to be definitely understood that I do not desire to limit the application of my invention thereto, and any change or changes may be made in the structure and arrangement of the parts, within the spirit of the invention and the scope of the subjoined claim.

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

A method of making a laminated bowstave, said method consisting in cutting a plurality of strips of the desired width and length from the wall of a bamboo cane whereby all of the strips have the same natural transverse curvature in cross section, then removing the pith layer on the inner concave sides of the strips and dressing the convex outer sides of the strips to smoothness, then similarly tapering the side edges of the strips toward the opposite ends thereof from the middle, then adhesively securing the strips together in superimposed nested relation.

HOWARD HILL.

BOWSTAVE OR THE LIKE

Filed May 27, 1939

2 Sheets-Sheet 1

Fig. 2.

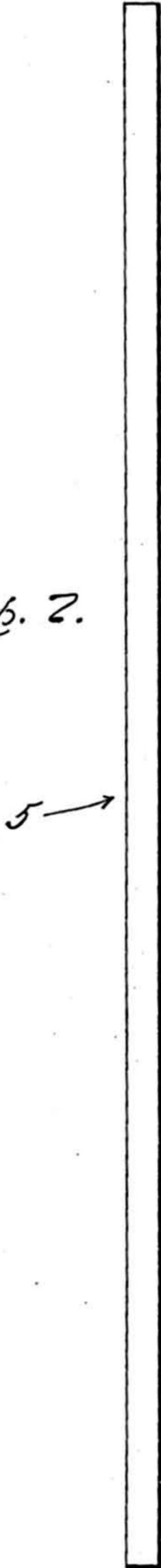


Fig. 1.

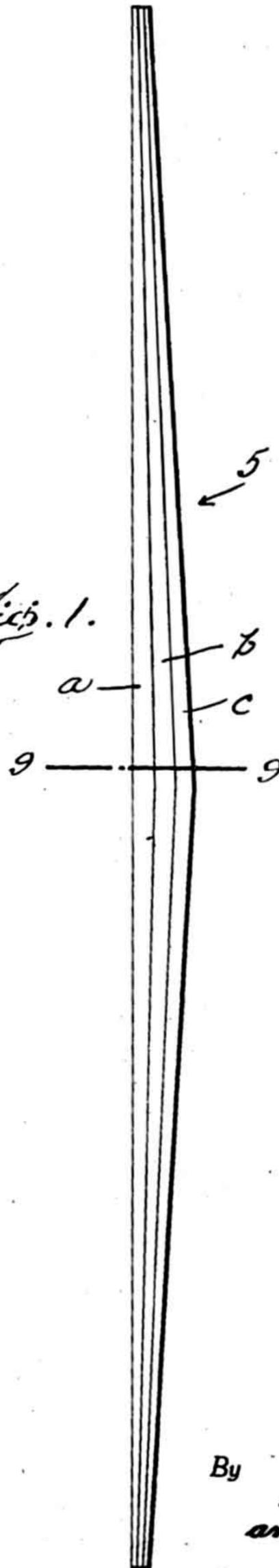


Fig. 9.

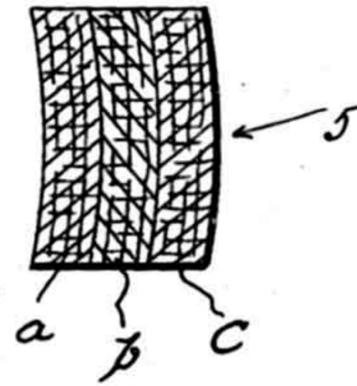


Fig. 7.

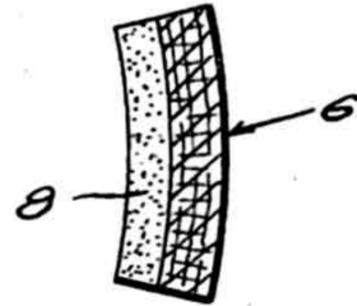
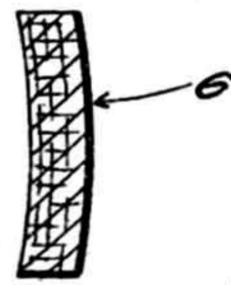


Fig. 8.



Inventor

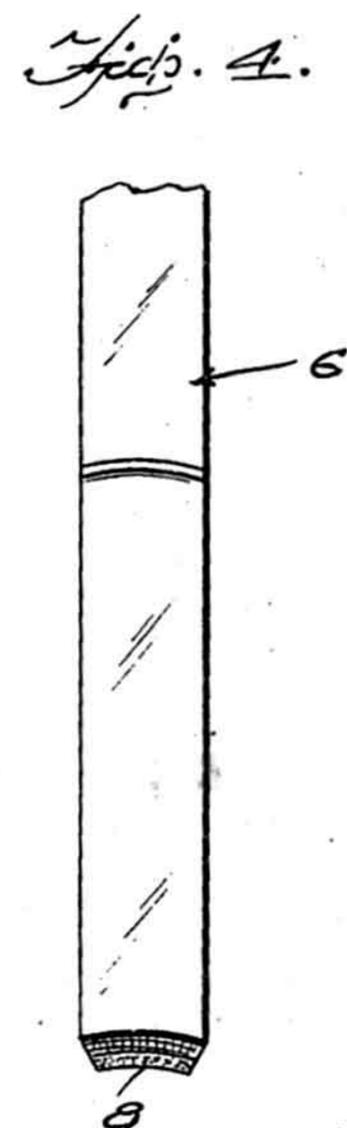
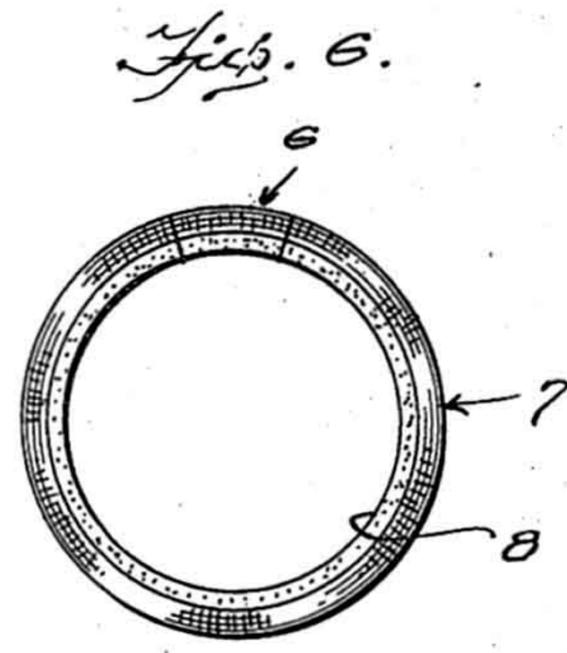
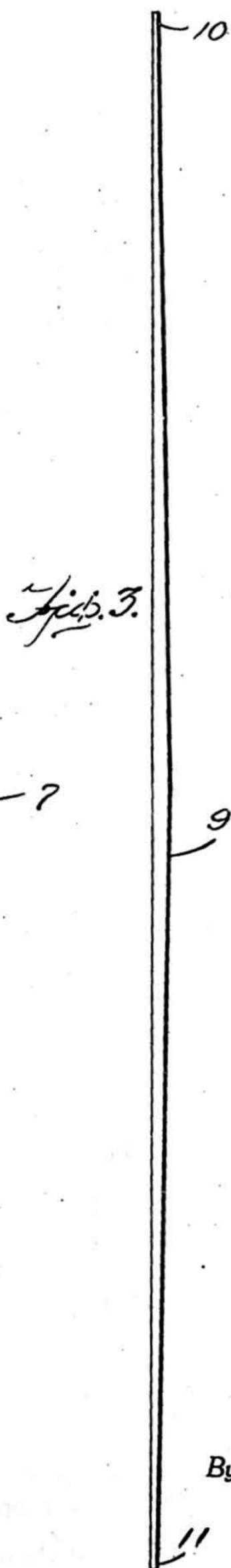
Howard Hill

By *Clarence A. O'Brien*
and Hyman Berman
Attorneys

BOWSTAVE OR THE LIKE

Filed May 27, 1939

2 Sheets-Sheet 2



Inventor
Howard Hill

By *Clarence A. O'Brien*
and Hyman Berman
 Attorneys