

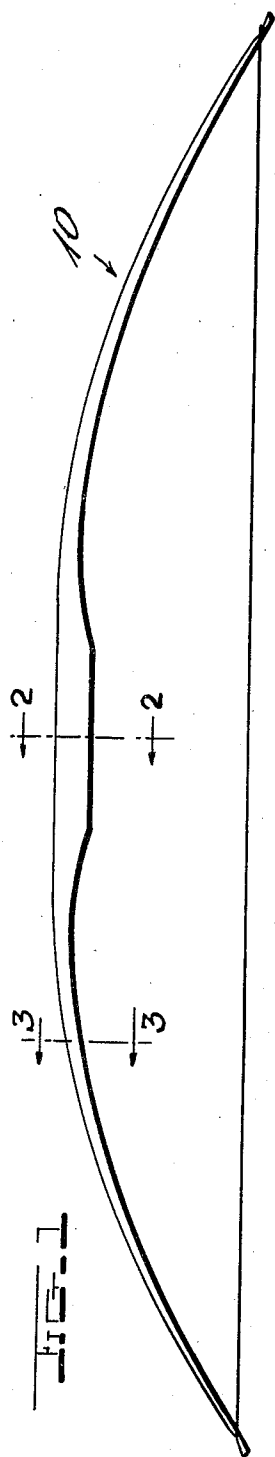
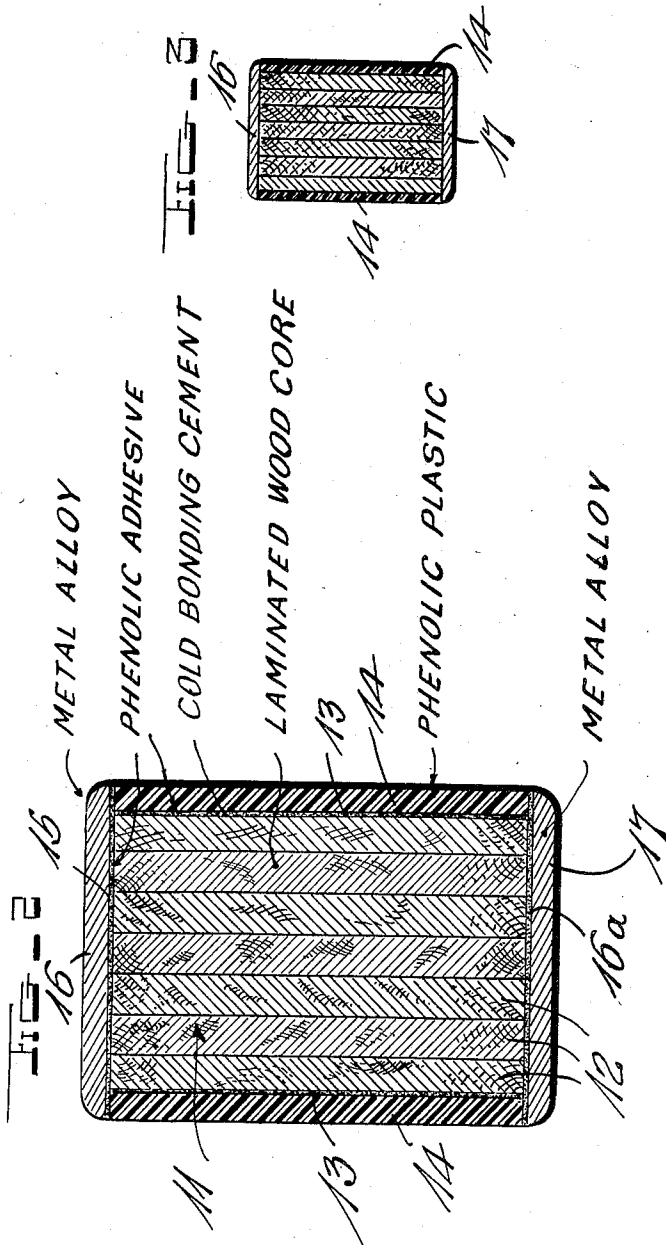
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P. J. MEYER ET AL

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ARCHERY BOW

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INVENTORS

PETER J. MEYER,
FRANK J. KAMINSKI,

BY *Felix A. Russell*

ATTORNEY

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2,818,057

ARCHERY BOW

Peter J. Meyer and Frank J. Kaminski, Baltimore, Md.

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1 Claim. (Cl. 124—23)

The present invention relates to an archery bow and it consists in the combinations, constructions, arrangement of parts herein described and claimed.

Generally there is provided an archery bow comprising a laminated wood core whose laminations extend forwardly and rearwardly the entire length of the bow. A phenolic plastic side rail is bonded to either side of the core by means of a cold bonding cement. The side rails extend likewise throughout the length of the bow. In addition, an outer and an inner skin each formed of a metal alloy are affixed to the forward and rearward sides of the core and side rails by means of a thermosetting high temperature and high pressure phenolic adhesive. The result is a more durable bow of superior performance not subject to the deterioration which takes place in all wooden bows of conventional structure. The bow constructed in accordance with the present invention is warp proof due to the strong torque resistance resulting from the construction aforementioned.

It is accordingly an object of the invention to provide a novel archery bow construction.

A further object of the invention is to provide an archery bow having superior torque resistance and which is warp proof.

Still another object of the invention is to provide in a device of the character set forth a bow having superior accuracy due to greater strength and lack of vibration.

Other and further objects of the invention will become apparent from a reading of the following specification taken in conjunction with the drawing, in which:

Figure 1 is an elevational view of a bow constructed in accordance with the teachings of the present invention,

Figure 2 is a greatly enlarged sectional view taken along line 2—2 of Figure 1, and

Figure 3 is an enlarged sectional view taken along line 3—3 of Figure 1.

Referring more particularly to the drawing, there is shown therein an archery bow generally indicated at 10

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and which is provided with a laminated wood core which is generally indicated at 11 and which is formed of a plurality of laminations 12 which extend forwardly and rearwardly of the bow 10 as well as extending lengthwise of the entire bow.

Affixed to each side of the core 11 by means of a cold bonding cement 13 is a pair of side rails 14 formed of a phenolic plastic. The side rails 13 extend the entire length of the bow 10.

Affixed by means of a phenolic adhesive 15 to the forward side of the core 11 and side rails 14 is an outside skin 16 formed of a metal alloy which skin extends the entire length of the bow 10. Likewise, upon the rear face of the bow 10 and extending its entire length there is affixed by means of a phenolic adhesive 16a an inside skin 17 likewise formed of a metal alloy.

It will be apparent that the device constructed in this manner provides a bow of extremely great strength due to the laminated core which core is entirely surrounded by the side rails 13 and protected from weather, moisture, etc. thereby as well as being likewise protected upon the forward and rearward sides thereof by the outer and inner skins which latter add not only resiliency but further strength to the device. It will also be apparent that the device is warp proof due to the laminated construction of the core which construction also prevents vibration which is normally present in bows of ordinary and conventional construction.

While but one form of the invention has been shown and described herein, it will be readily apparent to those skilled in the art that many minor modifications may be made without departing from the spirit of the invention or the scope of the appended claim.

What is claimed is:

35 An archery bow having a core of laminated wood extending forwardly and rearwardly throughout the entire length of the bow, said laminations adapted to bend edge-wise in their own plane, metal strips on the back and belly of the core extending throughout the length of the core, and being secured thereto by means of an adhesive, the edges of said metal strips projecting beyond the core defining side rail recesses on each side of the bow for the entire length thereof, and a side rail formed of plastic received and bonded in each of said recesses for the entire length of the core thereof.

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