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PICKER STICK FOR LOOMS

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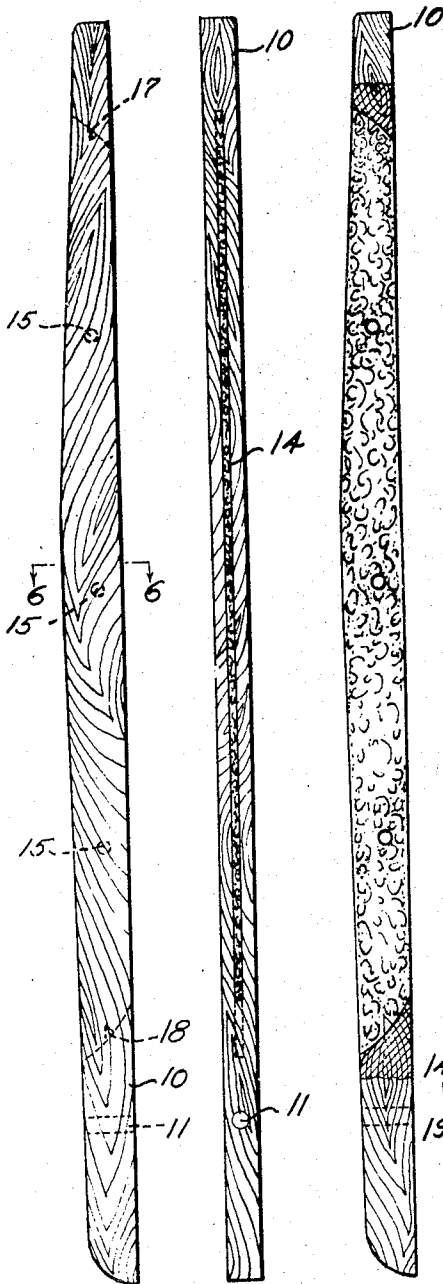


Fig-1 Fig-2 Fig-3

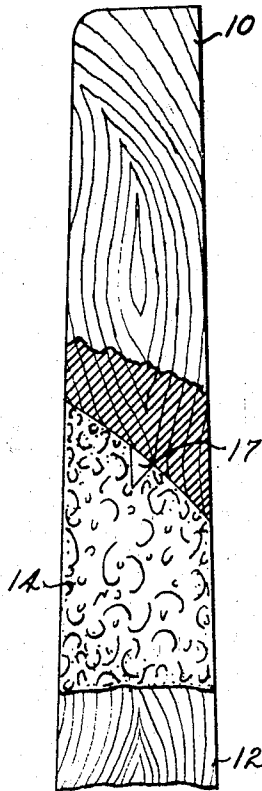


Fig-5

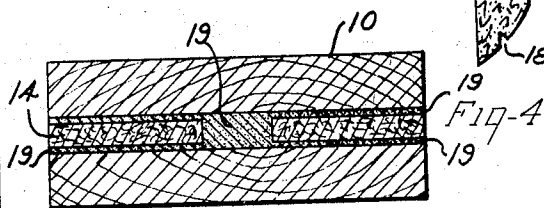


Fig-6

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PICKER STICK FOR LOOMS

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1 Claim. (Cl. 139—157)

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This invention relates to a picker stick for looms and more especially to a picker stick having the desired strength, and at the same time, the desired resiliency to properly receive and expel the shuttle, and one which will have long life and will not easily split or become damaged due to the excessive strains placed thereon.

It is an object of this invention to provide a picker stick having a reinforcing member of a different material from that from which the picker stick is made to thereby give the desired resiliency and strength to the picker stick, the thickness of the reinforcing member as well as the length of the reinforcing member being capable of being varied to thereby provide from a single blank picker stick, different types of picker sticks of different resiliencies to fit into various particular types of looms requiring a picker stick having a definite amount of resiliency as well as the required strength.

It is another object of this invention to provide an improved reinforced picker stick comprising a piece of suitable wood having a slot therein terminating short of the ends of the picker stick, with a reinforcing member glued into this slot which produces a picker stick having more than twice as much the strength as an all wood picker stick would have, and therefore will last longer than the ordinary wood picker stick and produces a picker stick which has increased strength and wearing qualities, but does not have any less resiliency or elasticity as the original resiliency and strength of the wood is retained.

Some of the objects of the invention having been stated, other objects will appear as the description proceeds, when taken in connection with the accompanying drawings, in which—

Figure 1 is a side elevation of the improved picker stick;

Figure 2 is a front elevation of the picker stick looking from the right hand side of Figure 1;

Figure 3 is an elevational view similar to Figure 1, but showing a portion of the picker stick broken away;

Figure 4 is an elevation of the reinforcing strip disassociated from the picker stick;

Figure 5 is an elevational view with parts broken away of the upper end of the picker stick;

Figure 6 is a cross sectional view taken along the line 6—6 in Figure 1.

Referring more specifically to the drawings, the numeral 10 indicates a picker stick having a suitable hole 11 in its lower portion by which it is adapted to be secured to a suitable shoe, not

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shown. This picker stick has extending from near the upper end to near the hole 11, a longitudinally extending and inwardly and outwardly extending slot 12 into which is adapted to be inserted a reinforcing member 14, the reinforcing member having a plurality of holes 15 therein, and this reinforcing member is preferably of fibrous material and is a tough, horn-like material made of cellulose, and chemically converted into a hard, vulcanized fiber with a density of from 1.20 to 1.35 as compared to wood. The upper and lower ends of the reinforcing member 14 have notches 17 and 18 therein and before the member 14 is inserted into the slot in Figure 6, it is coated on both sides and ends with a waterproof adhesive such as glue, and this adhesive also lodges in the holes 15 and in the notches 17 and 18, and the ends of the member 14 are cut to exactly fit the ends of the slot in the picker stick and then the fibrous member, with its coating 19 of adhesive disposed on the sides thereof and in the holes 15, and notches 17 and 18, is inserted into the slot as a tight fit and then the picker stick is subjected to a heat treatment of approximately 110 degrees Fahrenheit for a period of about 24 hours under a pressure of approximately 1500 pounds per inch to cause the reinforcing member 14 and the picker stick to be securely bonded together.

This member 14 may be made of fibre impregnated with a phenolic condensation product and placed under great pressure to form the strip before it is placed in the picker stick. The reinforcing member does not add additional weight to the picker stick, but provides a picker stick which has all the desired resiliency of a conventional picker stick made of hickory or similar wood, and at the same time, provides a picker stick which is many times stronger than the conventional picker stick made from a solid piece of wood.

In the drawings and specifications, there has been set forth a preferred embodiment of the invention, and although specific terms are employed, they are used in a generic and descriptive sense only, and not for the purpose of limitation, the scope of the invention being defined in the claim.

We claim:

A picker stick comprising a piece of wood, having a slot extending longitudinally thereof and stopping short of the ends of the picker stick, said slot being cut all the way from the outer edge of the picker stick to the inner edge thereof, and

a reinforcing member of compressed fibrous material completely filling said slot and adhesively bonded to the wooden portion of the picker stick, said reinforcing member having cavities therein for receiving adhesive material.

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