A. STERNBERGER.

PICKER STICK.

APPLICATION FILED MAY 3, 1920.

1,372,727.

Patented Mar. 29, 1921.

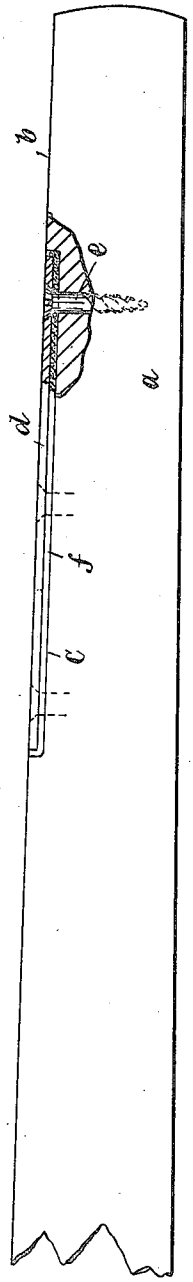


Fig. 1.

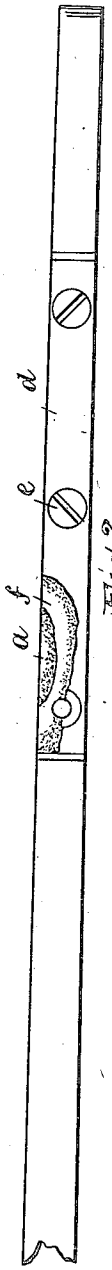


Fig. 2.

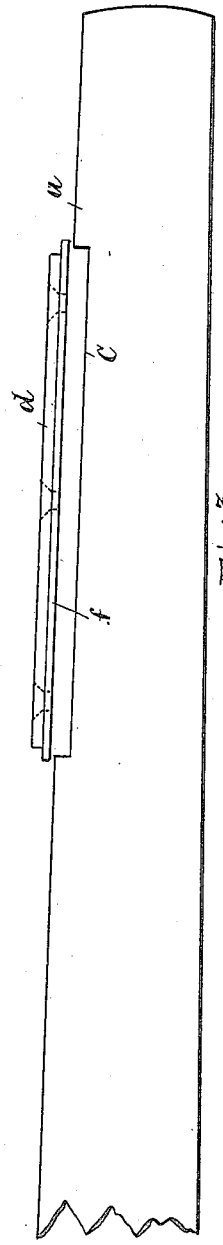


Fig. 3.

WITNESS:

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ARTHUR STERNBERGER, OF PATERSON, NEW JERSEY.

PICKER-STICK.

1,372,727. Specification of Letters Patent. Patented Mar. 29, 1921.

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To all whom it may concern:

Be it known that I, ARTHUR STERNBERGER, a citizen of the United States, residing at Paterson, in the county of Passaic and State of New Jersey, have invented certain new and useful Improvements in Picker-Sticks, of which the following is a specification.

This invention relates to picker sticks for looms of the class in which the stick projects through a hole in a picker of the kind which is formed of a block of raw-hide or other hard material, in consequence of which the block forming the picker wears away the picker stick, producing sooner or later therein a deep recess, so that the stick becomes unfit for further use. It has been proposed to protect the stick against this wear by securing a metal strip along its working edge in such position as to take the impact of the picker, but in any such case heretofore the protecting strip would come loose and in time fly off due to the heads of the securing screws or the reamed holes therefor in the strip wearing away as an incident to the vibrating of the strip due to the presence of one or more crevices, however minute, between the strip and the stick and which it is impossible not to leave in assembling the parts. According to my invention I employ the strip secured at the working edge of the picker stick by screws or equivalent, but I set between the strip and stick a material which is at first more or less soft or yielding but afterward hardens and so forms a hard, firm bed which constitutes a matrix with respect to the stick and strip and also sets adhering firmly to both of them, so that all possible crevices or interstices are closed up and the plate is from end to end solidly and rigidly backed.

In the drawing,

Figure 1 is a side elevation of the improved picker stick, partly broken away;

Fig. 2 is an elevation of the working edge thereof; and

Fig. 3 shows the metal strip or plate and a paper strip which I may use in forming the aforesaid bed in position to be entered in a recess provided for them in the stick.

a is the picker stick formed as usual of hard wood. In its working or picking edge *b* is formed an elongated recess *c*.

d is a metal strip whose width corresponds with the thickness of the picker stick. It is adapted to be received in the recess *c* and to be therein secured by means of the screws *e* or equivalent.

Before securing the strip *d* to the stick a strip of paper or the like of suitable thickness and as wide as the strip is laid in the recess, having been previously softened with some liquid substance which will set hard, as glue or cement. While this substance is still soft the strip *d* is superimposed on the strip *f* and secured in place by the screws, the softened strip *f* forming a sort of matrix which will take any inequalities of the surfaces of the stick and strip *d*. When the soft backing or bed thus formed hardens upon the cement setting there will be left between the stick and strip *d* a hard, firm bed for the strip which is a matrix with respect to both the stick and strip, all interstices being filled up, and which firmly adheres to both of them.

I prefer to make the recess a trifle longer than the strip *d* and strip *f* a trifle longer than the recess so that as illustrated in Fig. 3 in order to introduce the strips into the recess (strip *f* being already softened) they will have to be wedged into the same, the ends of strip *f*, which project beyond the ends of strip *d*, being bent up in the process as shown in Fig. 1.

My invention has demonstrated in practice the possibility of protecting the stick by a metal strip against the abrading action of the picker without the incidental disadvantage heretofore experienced that the strip on account of vibration would loosen, the vibration by virtue of my construction being so far prevented that the stick will outwear picker sticks made in any way heretofore proposed.

The paper or equivalent absorbent strip *f* not only forms a suitable carrier for the cement and gives the bed that is formed the necessary body for insuring filling up all crevices or interstices but serves as a binder or reinforce for the cement which might without it disintegrate and fall away.

Having thus fully described my invention, what I claim is:

1. A loom picker stick having a hard protecting piece secured thereto and forming its striking face and also having inter-

posed between the stick and such piece a hard bed in matrix-contact with the adjacent faces of said stick and piece.

2. A loom picker stick having a hard protecting piece secured thereto and forming its striking face and also having interposed between the stick and such piece a hard bed in matrix-contact with the adjacent faces of said stick and piece and cemented to said faces.

3. A loom picker stick having a hard protecting piece secured thereto and forming its striking face and also having interposed between the stick and such piece a bed in matrix-contact with the adjacent faces of said stick and piece.

4. A loom picker stick having a hard protecting piece secured thereto and forming its striking face and also having interposed between the stick and such piece a bed in matrix-contact with the adjacent faces of said stick and piece and consisting of an absorbing piece charged with cement.

In testimony whereof I affix my signature.

ARTHUR STERNBERGER.