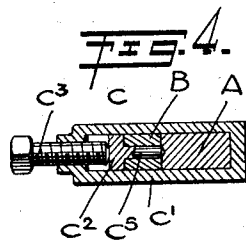
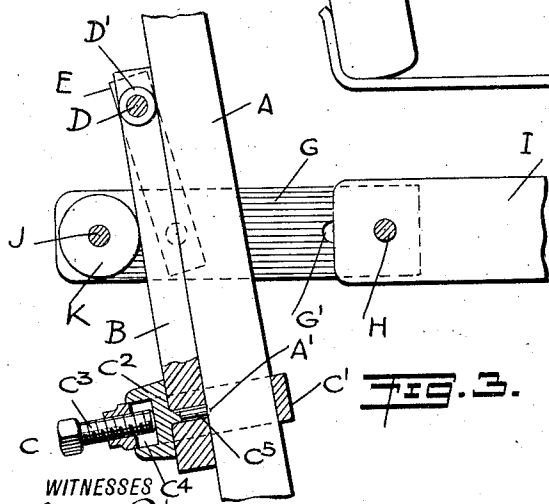
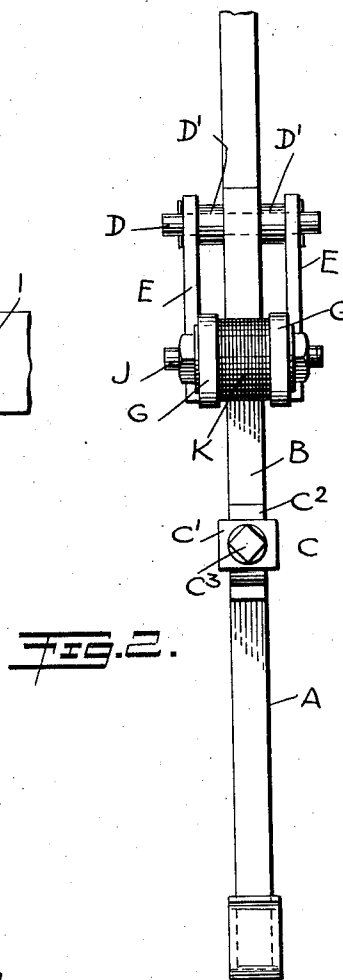


1,058,597.

Fig. 1. A technical drawing of a mechanical assembly. It shows a vertical member A and a horizontal member I. Member A has a slot B and a pin D. Member I has a pin H and a slot G'. A bracket K is attached to member A, with a pin J and a slot E. A component 4 is shown with pins C, C', and C2. A pin D' is also shown. A dimension line a' is indicated.



INVENTOR
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UNITED STATES PATENT OFFICE.

WILLIAM H. KELLEY, OF READING, PENNSYLVANIA.

LUG-STRAP FOR PICKER-STICKS.

1,058,597.

Specification of Letters Patent.

Patented Apr. 8, 1913.

Application filed May 1, 1912. Serial No. 694,364.

To all whom it may concern:

Be it known that I, WILLIAM H. KELLEY, a citizen of the United States, and a resident of Reading, in the county of Berks and State of Pennsylvania, have invented a new and Improved Lug-Strap for Picker-Sticks, of which the following is a full, clear, and exact description.

The invention relates to looms and its object is to provide a new and improved lug strap for picker sticks, arranged to insure a proper transmission of the power applied to the picker stick, to prevent accidental shifting of the lug strap of the picker stick, and to avoid weakening of the picker stick by holes, notches or the like.

For the purpose mentioned use is made of sweep straps carrying a striking member between them, links pivotally connected with the said straps, and a support on the picker stick and on which the said links are pivoted.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a side elevation of the lug strap as applied to a picker stick; Fig. 2 is an edge view of the same; Fig. 3 is a sectional side elevation of the same, parts being broken out; and Fig. 4 is a sectional plan view of the same on the line 4-4 of Fig. 1.

To the outer side of a picker stick A of the usual construction is clamped a support B by the use of a clamp C, and the said support B is preferably formed of a bar provided at its upper end with a transversely-extending pivot pin D on which are pivoted downwardly-hanging links E pivotally engaging pivots F held on the sweep straps G spaced apart to permit the free passage of the picker stick A and the support B between the said straps G. The inner ends of the sweep straps G are connected by a transversely-extending bolt H with the sweep stick I connected with the usual machinery for imparting the desired motion to the picker stick A, as hereinafter more fully explained. The outer ends of the sweep straps G support a transverse bolt J on which is mounted a striking member K, preferably formed of disks of leather fabric, or other material, to give a cushion-

ing effect to the striking member at the time the latter engages the outer side of the support B. When the sweep stick I is moved inward in the direction of the arrow *a'* then the sweep straps G move with the sweep stick and as the said straps G are hung on the swinging links E, it is evident that the striking member K finally comes in contact with the outer side of the support B and thus imparts a swinging motion to the support B and the picker stick A on which the said support B is fastened. When the sweep stick I moves in the inverse direction of the arrow *a'* and the picker stick A is returned to its outermost position in the usual manner then the several parts again assume the position shown in Fig. 1, that is, the picker stick A can safely return without danger of binding of the parts of the lug strap owing to the links E pivotally supporting the straps G. The sweep straps G are preferably provided with several apertures G' for the passage of the bolt H so as to permit of properly adjusting the straps G relative to the sweep stick I.

The clamp C is preferably constructed as follows: Through a yoke C' extends the picker stick A and the lower end of the support B and in the yoke is mounted a shoe or a saddle C² seated on the outer side of the support B and pressed inward against the same by a screw C³ screwing in the outer end of the yoke C'. The shoe C² is provided with a guideway C⁴ engaged by the outer end of the yoke C' so as to prevent accidental disengagement of the yoke C' and the shoe C². The shoe C² is further provided with a pin C⁵ which extends through the support B and engages a recess A' formed in the outer side of the picker stick A, so that when the screw C³ is screwed up the shoe C² is firmly pressed in contact with the support B whereby the latter is clamped in position on the picker stick A and up or down slipping of the support B is prevented, owing to the pin C⁵ engaging the recess A'.

It will be noticed that by the arrangement described the support B can be readily adjusted up or down on the picker stick A according to the position of the sweep stick I so that the latter and the straps G are arranged in proper alinement and after the support B has been moved to the desired position it is securely fastened in place by

the operator screwing up the screw C^s to clamp the support B in place on the picker stick A by the clamp C.

5 The lug strap shown and described is very simple and durable in construction, can be readily adjusted up or down on the picker stick and requires no weakening of the picker stick by boring holes or the like in the picker stick.

10 The support B is preferably in the form of a bar and as it is clamped to the picker stick A at the very points where the most strain is exerted it is evident that the picker stick is reinforced by the said bar, and hence
15 the picker stick is not liable to break or split.

In order to properly space the links E from the picker stick A and the support B use is made of washers D' mounted on the pivot pin D intermediate the support B and
20 the links E, as plainly indicated in Fig. 2.

It is understood that the lug strap may be readily used on narrow or wide picker sticks.

25 Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. The combination of a picker stick, a sweep stick, straps extending from one end

of said sweep stick, and between which the said picker stick extends, a striker extending 30 between the outer ends of said straps, a supporting bar adapted for connection upon the outer edge of the picker stick to receive the impact of said striker, links pivotally connected to said supporting bar and to said 35 sweep straps whereby to support the latter, and a clamp surrounding the picker stick and said bar for securely holding the latter in proper position.

2. The combination with a picker stick, of 40 a bar disposed upon the outer edge thereof and provided with a transverse opening, a plate having a spur adapted to extend through the bar opening and into engagement with the picker stick, a yoke adapted 45 to surround the picker stick, bar and spur plate, and a set screw threaded through the yoke and adapted to bear against the spur plate.

In testimony whereof I have signed my 50 name to this specification in the presence of two subscribing witnesses.

WILLIAM H. KELLEY.

Witnesses:

FRANK S. KELLEY,
E. B. WELDER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."