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PATENTED JULY 14, 1903.

W. H. KELLEY.
PICKER STICK MECHANISM FOR LOOMS.

APPLICATION FILED AUG. 26, 1902.

NO MODEL.

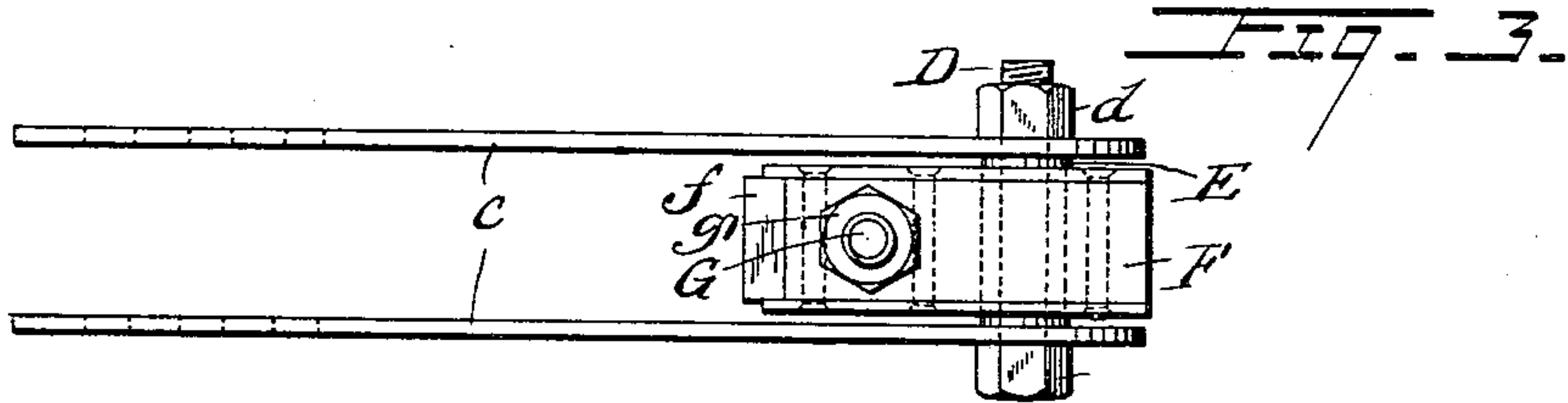


FIG. 1.

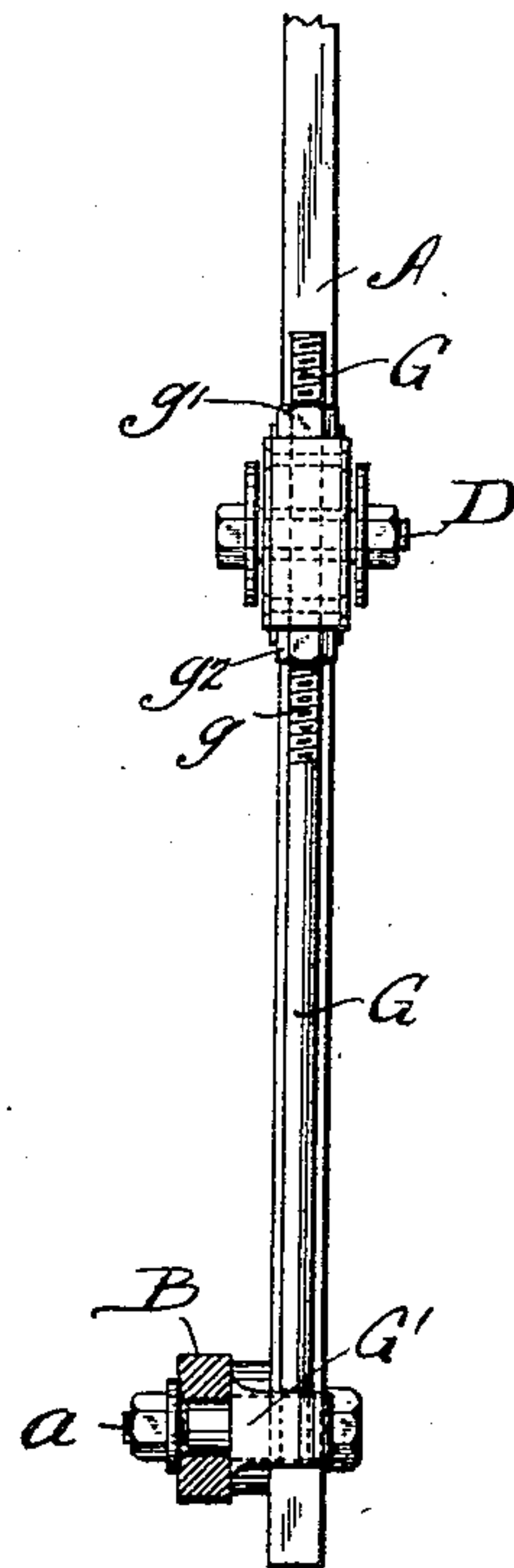
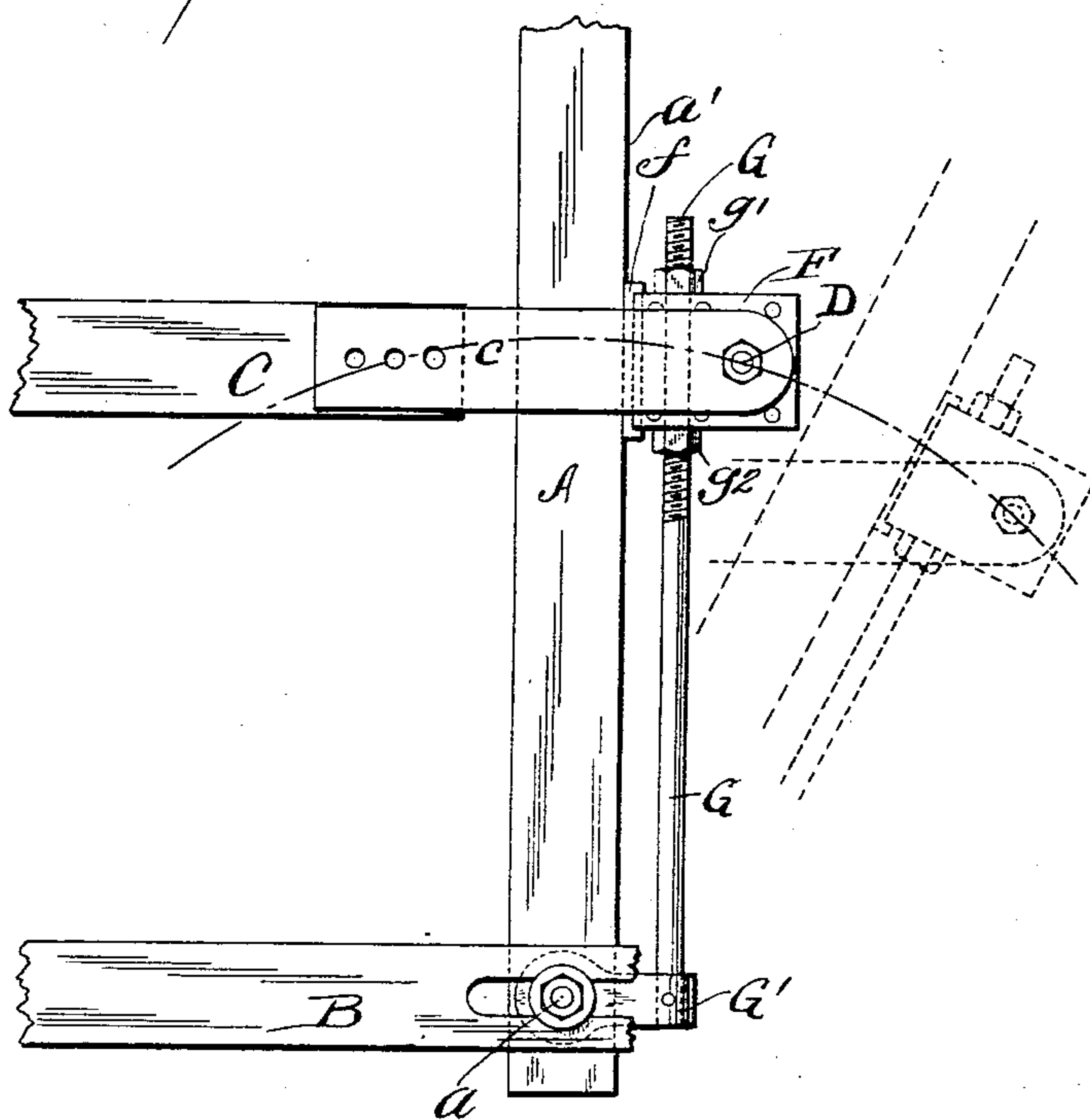


FIG. 2.

Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM H. KELLEY, OF READING, PENNSYLVANIA, ASSIGNOR OF ONE-THIRD
TO SAMUEL F. KELLER, OF STONYCREEK MILLS, PENNSYLVANIA.

PICKER-STICK MECHANISM FOR LOOMS.

SPECIFICATION forming part of Letters Patent No. 733,655, dated July 14, 1903.

Application filed August 26, 1902. Serial No. 121,054. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. KELLEY, a citizen of the United States of America, and a resident of Reading, in the county of Berks and State of Pennsylvania, have invented certain new and useful Improvements in Picker-Stick Mechanism for Looms, of which the following is a specification.

My invention relates to looms, and particularly to the connecting mechanism between the picker-stick or staff and its operating-bar. The rapid and jerky action of this bar on the picker-stick makes it a difficult matter to provide a connection which will be economical in first cost and at the same time able to withstand satisfactorily the hard service and capable of convenient adjustment of the leverage to suit varying conditions.

The object of my invention is to provide an improved connecting mechanism which will combine these advantages; and the main feature consists in providing means for maintaining the striking-face of the striker-block which is carried by the actuating-strap parallel with the contacting-face of the picker-stick at all points of their swing, while at the same time permitting a limited swing of the block free of the picker-stick.

The invention is fully described in connection with the accompanying drawings and is specifically pointed out in the claims.

Figure 1 is an elevation showing the lower portion of a picker-stick in vertical position and having my improved actuating mechanism applied thereto in preferred form, another position of the parts being indicated in dotted lines. Fig. 2 is an edge view of the same. Fig. 3 is an enlarged plan view of the strap and block.

A represents the picker-stick, which is pivoted, as usual, at its lower end *a* to a fixed part B of the machine.

C is a portion of the actuating-bar for the picker-stick, with its strap end *c* loosely spanning the latter, as usual, and projecting beyond it. This strap end *c*, as shown, is formed of two plates, which are rigidly connected at their outer ends by means of a bolt D, a spacing-sleeve E thereon, and a nut *d*. Upon this sleeve is loosely mounted between the strap-plates a striker-block F, preferably provided with a removable striking-face *f*, of

leather, which forms a flat bearing-surface of substantial extent to contact with the edge of the picker-stick.

To provide for conveniently carrying the actuating-strap and at the same time for maintaining the striking-face of the block F parallel with the contacting face of the picker-stick at any point of their swing, I employ a supporting mechanism comprising a swinging arm G, which is pivoted concentrically with the picker-stick at *a* by means of an attached piece G', so as to swing with the latter, and which is so connected with the striker-block F as to maintain the latter in fixed relation thereto in their joint movement around the pivot *a*. This connection, as shown, is effected directly and adjustably by passing the screw-threaded end *g* of the swinging arm through a drilled hole in the block F and rigidly securing the same thereto at a properly-adjusted height from the pivot *a* by means of nuts *g'* *g*² on the threaded end of the arm, which end is arranged parallel with the contacting edge *a'* of the picker-stick, while its pivotal end is suitably mounted upon the common pivot *a*, as indicated.

It will be readily seen that by means of my construction the striking-face of the block F is at all times during their joint swinging movement about the common pivot *a* maintained square with the contacting edge *a'* of the picker-stick, thus distributing the strain and wear in such manner as to secure greatly increased and improved service from the parts. The block F, as shown, is formed of fiber, which provides a superior bearing-surface upon the spacing-piece E, and may be made of ample strength without undue weight; but the specific construction shown may obviously be considerably varied without departing from the spirit of my invention.

What I claim is—

1. The combination with the pivoted picker-stick and the actuating-strap therefor, of a striker-block pivotally carried by said strap free of the picker-stick and a strap-supporting arm adapted to permit a limited swing of the block independently of the picker-stick and to maintain the striking-face thereof parallel with the contacting face of the picker-stick.

2. The combination with the pivoted picker-stick and the actuating-strap therefor, of a striker-block pivotally carried by said strap free of the picker-stick, and a strap-support-
5 ing arm rigidly attached to said block and independently pivoted approximately concentrically with the picker-stick.

3. The combination with the pivoted picker-stick and the actuating-strap therefor, of a
10 striker-block eccentrically pivoted to the projecting strap end and a strap-supporting arm

rigidly engaging said block between said pivot and the striking-face thereof and having its free end pivoted approximately concentrically with the picker-stick.

Signed at Reading, Pennsylvania, this 21st
day of August, 1902.

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WILLIAM H. KELLEY.

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