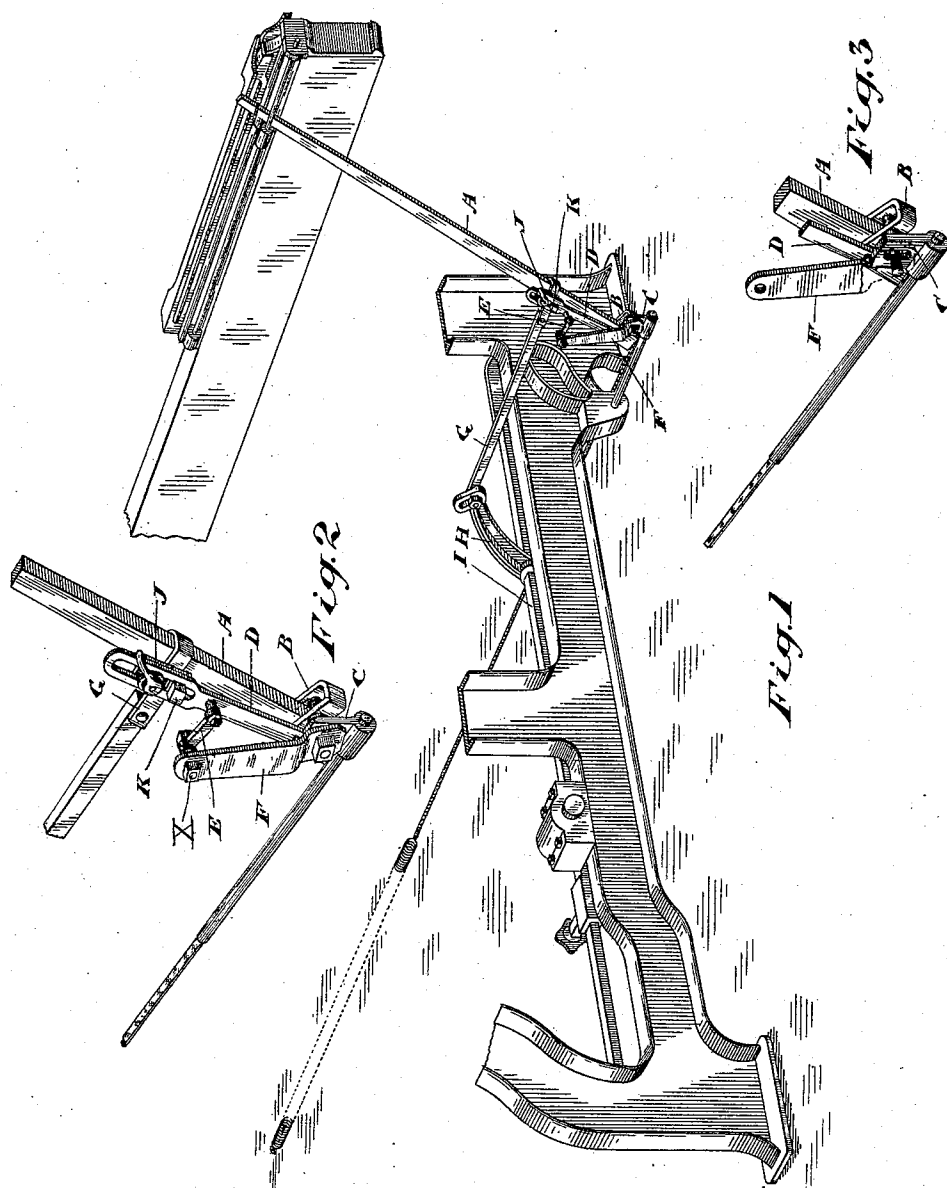


(No Model.)

L. BREDANNAZ.
PICKER STICK OPERATING MECHANISM.

No. 469,056.

Patented Feb. 16, 1892.



Witnesses.

J. R. Cameron
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Inventor:

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UNITED STATES PATENT OFFICE.

LOUIS BREDANNAZ, OF TORONTO, CANADA.

PICKER-STICK-OPERATING MECHANISM.

SPECIFICATION forming part of Letters Patent No. 469,056, dated February 16, 1892.

Application filed May 15, 1891. Serial No. 392,924. (No model.)

To all whom it may concern:

Be it known that I, LOUIS BREDANNAZ, of the city of Toronto, in the county of York, in the Province of Ontario, Canada, have invented a certain new and useful Improvement in Picker-Stick-Operating Mechanisms, of which the following is a specification.

The object of the invention is to pivot and operate a picker-stick in such a manner that the said stick will strike the shuttle on the same spot without any vertical rubbing movement; and it consists, essentially, in pivoting the stick upon a pivoted arm and connecting it to an arm of the same length, but set at a different angle, substantially as and for the purpose hereinafter explained.

Figure 1 is a perspective view of my improved picker-stick applied to a machine. Fig. 2 is an enlarged detail of the mechanism by which the picker-stick is operated. Fig. 3 is a perspective detail of the bracket C.

Before describing in detail the construction of the mechanism involved in my invention, I may mention that the ordinary picker-stick is pivoted on a fixed pivot, and consequently that in making its stroke it first moves upwardly and then downwardly, thus causing a vertical rubbing action against the end of the shuttle, which soon wears out the stick and necessitates its removal. By the adoption of my device the picker-stick will move in a perfectly-straight horizontal plane, thereby entirely avoiding the objectionable rubbing action referred to.

In the drawings, A is a picker-stick pivoted on the end of an arm B, which is itself pivoted on the stationary bracket C, the bolt or pin upon which the arm B is pivoted passing through a slot made in the bracket C, in order that the said pivot-bolt may be adjusted for the purpose of altering the position of the picker-stick.

D is a bar pivoted on the pivot of the picker-stick A and extending up parallel with the said picker-stick.

E is an arm pivoted to the bar D and to a stationary plate F.

G is a jointed rod connected at one end to the picker-stick A and at its other end to the arm H, fixed to the picker-shaft I. When the picker-stick A is thrown or drawn forward by the motion of the picker-shaft I, its pivot-point will by the action of the arms D and E drop the exact distance that the stick itself would rise in passing over its pivot-point were the said pivot-point stationary. In consequence of this arrangement the picker-stick strikes the shuttle in exactly the same spot every time, and as there is no upward or downward movement of the said picker-stick the said stick is not worn out by rubbing against the shuttle. With the view of permitting the ready adjustment of the rod G upon the picker-stick, I simply hook the rod G upon the picker-stick and support the said rod by connecting it to the bar D through a plate J and set-screw K. A slot is made in the bar D, so that the said set-screw and its plate may be readily adjusted up or down, as required, thus shortening or lengthening the stroke of the picker-stick, as may be required.

What I claim as my invention is—

1. The combination of the bracket C, the arm B, pivoted thereto, and the picker-stick A, pivoted on said arm, the bar D, connected thereto, the plate F, the pivot X, and the rod E, pivoted thereon at one end, the other end being connected to the bar D, substantially as described.

2. The combination of the plate F, the pivoted bar D, the bracket C, the arm B, pivoted to said bracket, the picker-stick pivoted on said bracket C, and the arm E, pivoted at one end on the plate F and at its other end to said bar D, with the picker-shaft I, the arm H, mounted thereon, and a jointed rod connected at one end to said arm H and adjustably connected at its other end to the bar D and picker-stick A, substantially as described.

Toronto, May 11, 1891.

LOUIS BREDANNAZ.

In presence of—

J. EDW. MAYBEE,
W. G. McMILLAN.