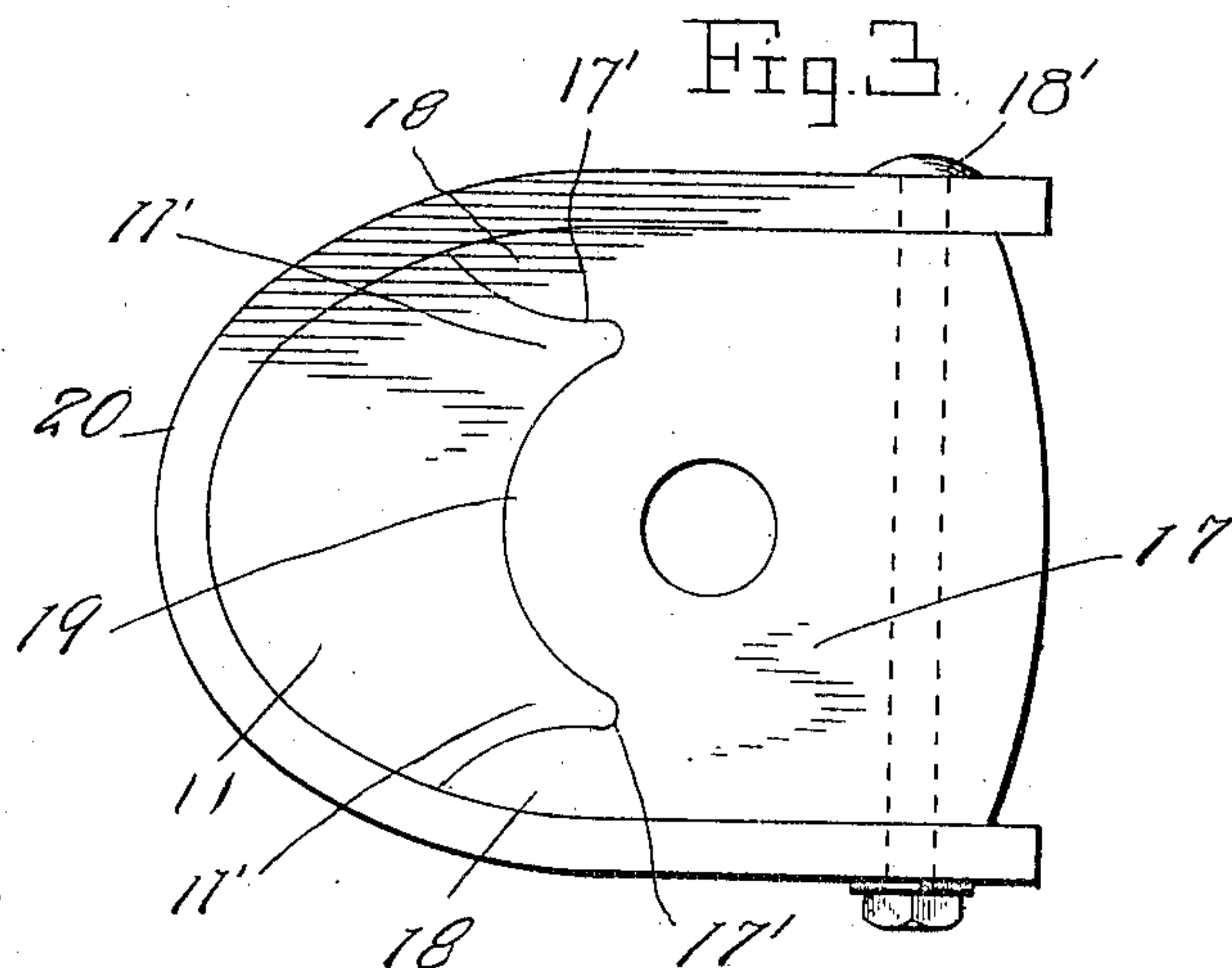
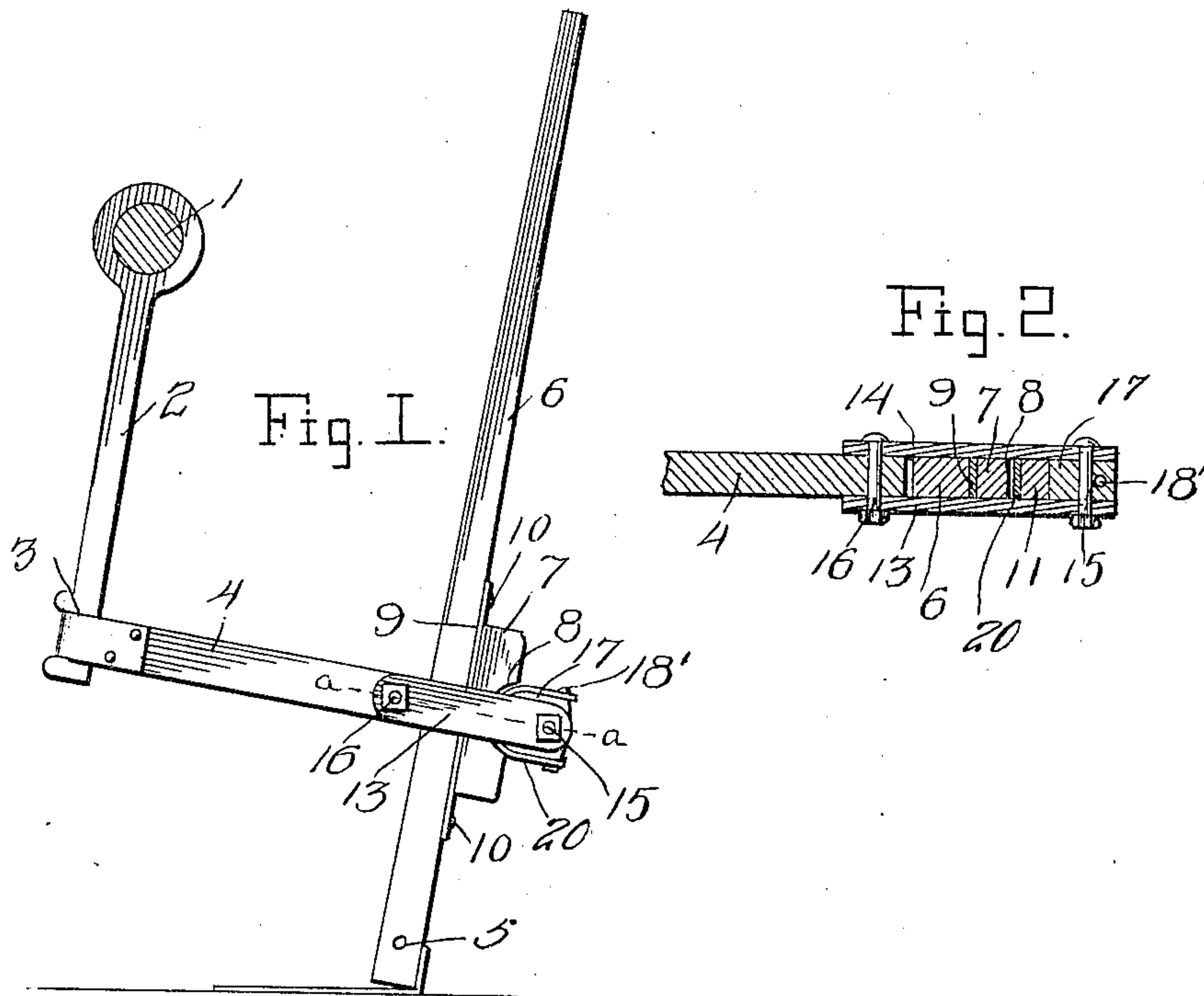


No. 837,198.

PATENTED NOV. 27, 1906.

C. C. CRANE.
SHUTTLE MOTION FOR LOOMS.
APPLICATION FILED JUNE 10, 1905.



Witnesses
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UNITED STATES PATENT OFFICE.

CHAUNCEY C. CRANE, OF HOUSATONIC, MASSACHUSETTS.

SHUTTLE-MOTION FOR LOOMS.

No. 837,198.

Specification of Letters Patent.

Patented Nov. 27, 1906.

Application filed June 10, 1905. Serial No. 264,632.

To all whom it may concern:

Be it known that I, CHAUNCEY C. CRANE, a citizen of the United States, residing at Housatonic, in the county of Berkshire, State of Massachusetts, have invented certain new and useful Improvements in Shuttle-Motions for Looms; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to shuttle-motions for looms, and has for its object to provide an improved connection between the sweep-stick and the picker-stick which will insure against breaking of the said picker-stick.

In the accompanying drawings, Figure 1 is an elevation of my invention, showing the same applied to a loom. Fig. 2 is a sectional view on the line *a a* of Fig. 1, and Fig. 3 is a detail view of the cushion element of the invention.

Referring to the drawings, the numeral 1 indicates the picker-arm shaft, and 2 the picker-arm.

The numeral 3 denotes a strap which is engaged around the lower end of the picker-arm 2 and which is connected at its ends to a sweep-stick 4.

Hinged to the loom in the usual manner, as at 5, is a picker-stick 6, which is of the ordinary construction. A block 7 is secured in any suitable manner to a cushion-strap 9, which in turn is secured to the picker-stick 6, as at 10, and which serves to cushion the impact of the picker-stick. The block 7 is provided with a recess 8 in its outer edge face for a purpose to be hereinafter described. Pivotally mounted upon opposite sides of the sweep-stick by means of a bolt 16 are strips 13 and 14, and pivotally mounted by means of a bolt 15 between the said strips at their outer ends is the cushion member of the de-

vice. The said cushion member comprises a block 17, which is preferably formed of wood and which has one of its edges recessed, as at 17', the said recesses being directed inwardly in diverging planes with respect to each other and being located between ears 18 and an intermediate rounded portion 19. A cushion 11, formed, preferably, of rubber, is provided with tongues 11', which are received in the recesses 17' in the block 17. Engaged around the cushion 11 and block 17 is a strap 20, which is secured at its ends to the block 17 by means of a bolt 18'.

The cushion member of the device seats in the recess 8 in the block 7 and serves to cushion the connection between the picker-stick and the picker-arm.

What is claimed is—

1. A device of the class described comprising a picker-stick, a picker-arm, a sweep-stick connecting the picker-stick and picker-arm, a recessed block, a cushion-strip connecting said block and said picker-stick, and a cushion element carried by said sweep-stick and disposed in the recess in said block.

2. A device of the class described comprising a picker-stick, a picker-arm, a sweep-stick connecting the picker-stick and picker-arm, a recessed block carried by said picker-stick, and a cushion element carried by said sweep-stick and received in the recess in said block, said cushion element comprising a block having recesses lying in diverging planes, an elastic cushion having tongues seated in said recesses, and a strap secured at its ends to the said first-named block and engaged around the said elastic cushion.

In testimony whereof I affix my signature in presence of two witnesses.

CHAUNCEY C. CRANE.

Witnesses:

H. H. BIDWELL,
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