July 9, 1929. R. W. CHANDLER 1,719,873

LOOM PICKER

Filed June 25, 1928

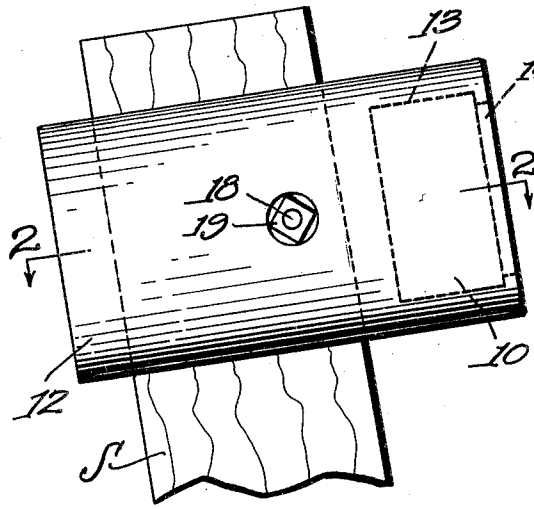


Fig. 1.

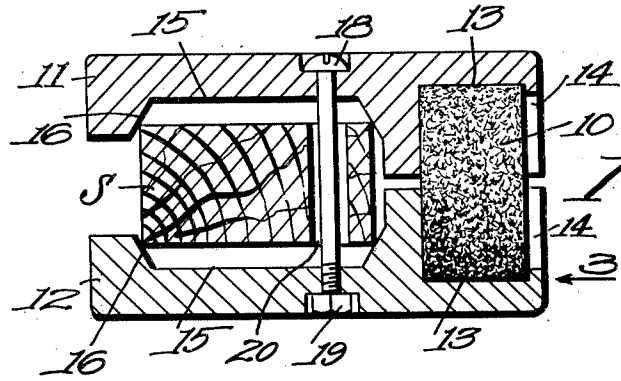


Fig. 2.

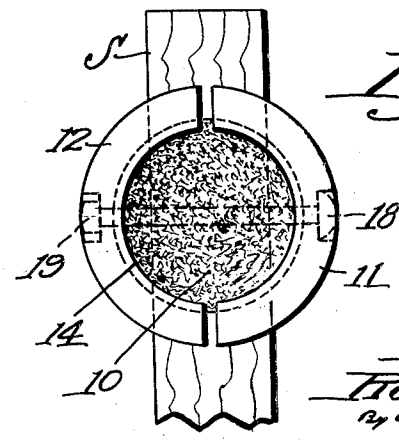


Fig. 3.

Inventor
Robert W. Chandler
By attorneys
Southgate Fay & Hawley

Witness
C. F. Neeson

Patented July 9, 1929. 1,719,873

UNITED STATES PATENT OFFICE.

ROBERT W. CHANDLER, OF WORCESTER, MASSACHUSETTS, ASSIGNOR TO GRATON & KNIGHT COMPANY, OF WORCESTER, MASSACHUSETTS, A CORPORATION OF MASSACHUSETTS.

LOOM PICKER.

Application filed June 25, 1928. Serial No. 287,961.

This invention relates to a loom picker and to means for attaching a picker to a picker stick. Loom pickers are commonly made of leather or textile material and as a single unitary structure. When such a picker becomes worn, the entire picker must be thrown away, resulting in a considerable waste of expensive material.

It is the object of my invention to provide a picker in which a small portion or plug of suitable cushion material receives the blow of the shuttle, and in which said small plug is detachably secured so that it may be easily and quickly removed and renewed when worn and at comparatively slight expense.

A further object is to provide a picker of the type described in which a two-piece metal holder is provided for securing the cushion plug to the picker stick, and preferably in which a single fastening member retains the cushion plug in the metal holder and also retains the holder on the picker stick.

My invention further relates to arrangements and combinations of parts which will be hereinafter described and more particularly pointed out in the appended claims.

A preferred form of the invention is shown in the drawings in which

Fig. 1 is a side elevation of my improved picker;

Fig. 2 is a sectional plan view, taken along the line 2—2 in Fig. 1; and

Fig. 3 is an end elevation, looking in the direction of the arrow 3 in Fig. 2.

Referring to the drawings, my improved picker comprises a cylindrical plug 10 of suitable cushion material and a substantially cylindrical metal holder comprising two parts 11 and 12, said parts being separated in a vertical plane.

The parts 11 and 12 are recessed near one end, as indicated at 13, to receive the cushion plug 10, and an opening 14 is provided in the end of the picker holder to permit engagement of the plug 10 by the point of the shuttle.

The other end portions of the members 11 and 12 are recessed, as indicated at 15, to receive a picker stick S. The ends of the recesses are preferably beveled, as indicated at 16, so as to provide inclined or wedge-like surfaces to engage and grip the corners of the stick S.

A clamping bolt 18 extends through transverse openings in the members 11 and 12 and is provided with a nut 19 by which it may be tightened to clamp the members 11 and 12 against the plug 10 and picker stick S. A transverse opening 20 is provided in the stick S for the bolt 18.

The plug 10 may be formed of any suitable material and I find it desirable to use a plug formed of scrap leather and rubber secured together by a suitable binder or in some equivalent manner.

The picker holder is cylindrical in outward appearance, as clearly indicated in Figs. 1 and 3, and is preferably formed of aluminum or some other light and strong metal. The plug 10, being strongly re-enforced on its sides and end, is well adapted to resist the blows of the shuttle, and the life thereof is correspondingly prolonged.

When the plug becomes worn, however, it may be replaced at comparatively slight expense, as the only part of the picker to be discarded is the worn plug 10.

Having thus described my invention and the advantages thereof, I do not wish to be limited to the details herein disclosed, otherwise than as set forth in the claims, but what I claim is:—

1. A loom picker comprising a plug of cushion material, a two-piece metal holder for said plug, and means to clamp the two parts of said holder against the picker stick and also against said cushion plug whereby said stick and cushion plug are firmly gripped by and between said holder parts.

2. A loom picker comprising a plug of cushion material, a two-piece metal holder in which said plug is held in position for direct engagement by a shuttle point, the adjacent faces of said holder parts being recessed near one end to receive said cushion plug and near the other end to receive the picker stick, and means to draw said parts together.

3. A loom picker comprising a plug of cushion material, a two-piece metal holder in which said plug is held in position for direct engagement by a shuttle point, the adjacent faces of said holder parts being recessed near one end to receive said cushion plug and near the other end to receive the picker stick, and means to draw said parts together, the end surfaces of said recesses

engaging the corners of said stick being beveled and engaging said stick with a wedge-like action.

4. A loom picker comprising a substantially cylindrical two-piece metal holder, the parts of said holder being recessed in their adjacent faces near one end to receive a cylindrical plug of cushion material and near the other end to receive the picker stick, and means to clamp said parts together on said stick and on said cylindrical plug with said cushion plug positioned for direct engagement with a shuttle point.

5. A loom picker comprising a substantially cylindrical two-piece metal holder, the parts of said holder being recessed in their adjacent faces near one end to receive a cylindrical plug of cushion material and near the other end to receive the picker stick, and a single clamping element extending through said picker stick and through said holder parts and effective to secure said parts to each other and to clamp said parts on said stick and on said cylindrical plug with said cushion plug positioned for direct engagement with a shuttle point.

In testimony whereof I have hereunto affixed my signature.

ROBERT W. CHANDLER.