

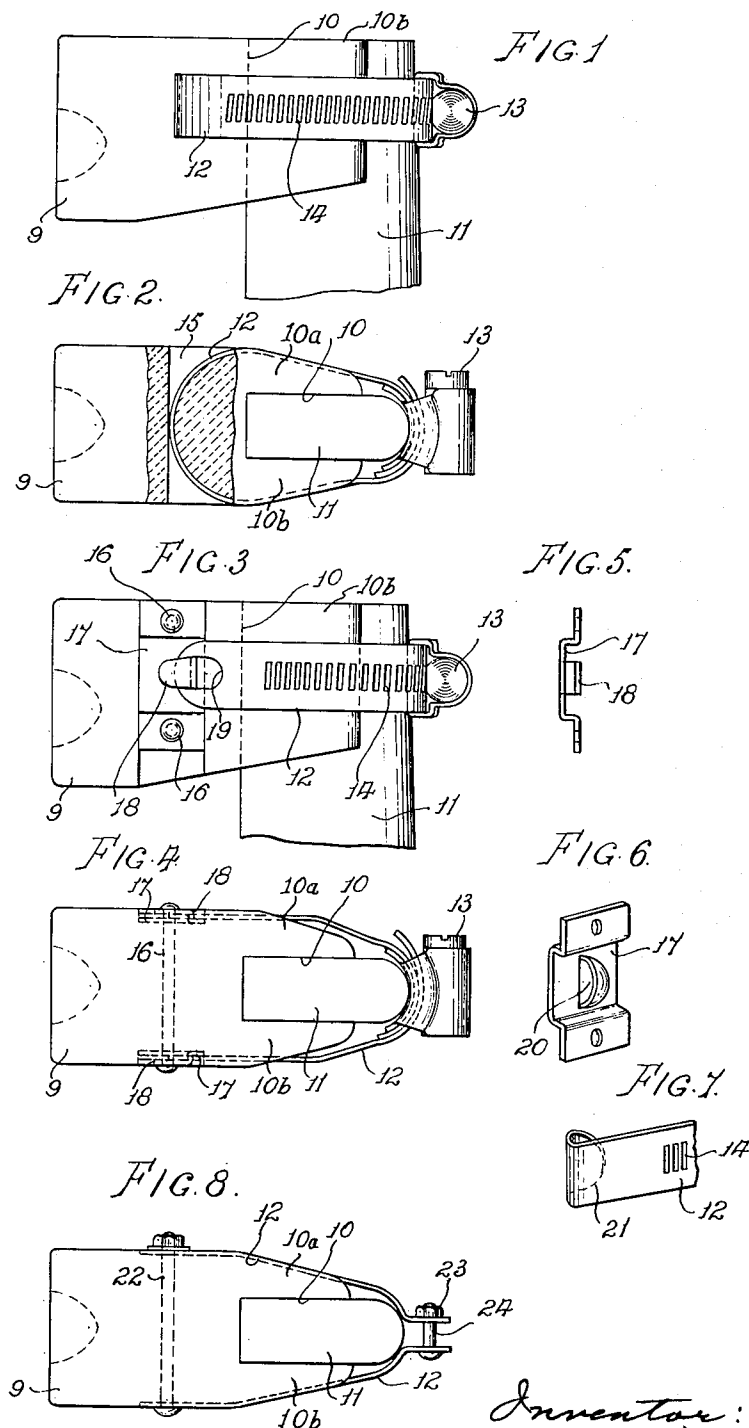
April 3, 1956

H. HARGREAVES

2,740,431

PICKERS FOR UNDERPICK LOOMS

Filed June 14, 1951



Inventor:
Harry Hargreaves
 by *Victor D. Bost*
 Attorney

1

2,740,431

PICKERS FOR UNDERPICK LOOMS

Harry Hargreaves, Manchester, England

Application June 14, 1951, Serial No. 231,530

Claims priority, application Great Britain June 22, 1950

3 Claims. (Cl. 139—159)

This invention has reference to pickers for under-pick looms and has for its object to provide improvements therein whereby pickers can be made which can be secured to the picking stick more easily and in a more positive and satisfactory manner than at present, and which can be secured without the need for passing securing screws through the picker and picking stick, which at present cause a great deal of damage to the picker and stick, particularly when comparatively soft pickers are used which soon wear out and have to be replaced.

According to this invention a picker is made with a slot at the back to engage the front face and sides of the picking stick and has on or in it, means for attaching or securing to it a metal clamp or clip which will pass round the back of the stick and can be tightened to hold the picker firmly on the stick, the securing means being conveniently of the type of clip used for securing hoses and having a tightening means upon it whereby the picker is held firmly but adjustably on the stick.

The invention is more particularly set forth with reference to the accompanying drawings in which:

Fig. 1 is an elevational view showing a picker mounted on the picking stick according to the invention,

Fig. 2 is a plan of Fig. 1 in part section,

Fig. 3 is an elevational view showing an alternative construction,

Fig. 4 is a plan of Fig. 3,

Fig. 5 is an end view of a securing bracket used in the construction shown in Figs. 3 and 4,

Fig. 6 is a perspective view showing an alternative form of securing bracket,

Fig. 7 shows one end of the clip formed to engage this bracket, and

Fig. 8 is a plan showing a further method of securing the picker in place.

Referring to the drawings the picker 9 which may be of leather, rubberized canvas, rawhide, plastic, or any convenient material is made with a slot or opening 10 at the back into which the picking stick 11 can be fitted, so that the front and sides of the stick are embraced by the picker as shown. The depth of the slot is such that the two portions of the picker forming the sides of the slot, which may be termed the cheek portions 10a and 10b, are substantially less in thickness at their base than in their height which determines the depth of the slot. They are therefore subject to inward flexure by external lateral pressure so as to increase the frictional hold of the side walls upon the sides of the picker stick.

The picker 9 is secured on the stick 11 by a metal clamp or clip 12 and a convenient form of clip for this purpose is the known kind shown in Figs. 1 to 4 of the drawings which is made of strip metal, one end of the clip carrying a worm screw 13 adapted to engage grooves 14 cut into the surface of the metal at the other end, so that by turning the screw in one direction or the other the ends are drawn together or moved apart, to respectively tighten or slacken the clip.

2

The picker is designed for the attachment of a clip in several ways.

One convenient way, particularly adapted for use on pickers of moulded or laminated plastic, laminated glass fabric or rubberized canvas is shown in Figs. 1 and 2, and in this construction the picker is formed with a hole 15 having flat and curved walls as shown, the clip being threaded through the hole 15 so that it presses against the curved wall when tightened up behind the stick.

Figs. 3 and 4 show another arrangement more especially adapted for use with a hide or leather picker, and here there are secured to the sides of the picker by transverse rivets 16 plates or brackets 17 formed with projecting hooks 18, the clip being provided at its free ends with openings 19 which are passed over the hooks 18 so that when the screw 13 is tightened the picker is drawn towards the stick and held firmly against it. The securing bracket itself is shown in Fig. 5, and in Fig. 6 an alternative form is shown in which each bracket instead of having a hook 18, is provided with an opening 20, the end of each clip being bent round as shown in Fig. 7 to form a hook 21. The hooks 21 are received in the openings 20 at either side of the picker, so that the picker may be secured in position as before.

When the clip is passed through the picker according to the construction shown in Figs. 1 and 2, the ends are joined at the securing screw which, as it is screwed up, draws the clip tighter, but when the clip is attached to securing brackets fixed to the sides of the picker, then the clip is made in two separate pieces which are connected by the securing device as shown in Figs. 3 and 4.

Fig. 8 shows a further form of securing means and in this construction the clip 12 is made in two parts which are fastened to the sides of the picker by a bolt 22, or a rivet may be used, the clip being tightened or slackened by means of a nut 23 on a bolt 24 joining the clip parts together.

A picker made and secured on the picking stick according to any of the constructions described is firmly held without damaging in any way the picking stick or weakening the stick by drilling screw holes through it. The picker can be adjusted to a nicety on the stick, and when it is desired to remove a worn picker it is an easy matter to detach it and replace it by another, and if it should suffer any dimensional change of wear, climatic or other conditions it can be tightened as and when required with very little trouble.

I claim:

1. A picker for an underpick loom having means for securing it to a picker stick, said picker comprising a body of material having the toughness, pliability and resiliency characteristics of rubberized canvas and provided with a stick receiving slot in its back face forming cheek portions on the respective sides of the slot, the depth of the slot substantially exceeding the thickness of the said cheek portions at their base, the said securing means comprising a flexible inelastic element connected to the picker between the ends of the latter and in front of the base of said slot and having parts respectively extending rearwardly on both sides of the picker along the said cheek portions and beyond the latter into clamping relation with the rear edge of a picker stick disposed in the slot, and means operatively engaging the two rear ends of the said rearwardly extending parts and adapted to modify the tension produced by the element upon the back of the stick and the pressure of the cheek portions upon the sides of the stick.

2. A picker for an underpick loom as claimed in claim 1 wherein the picker has a hole extending transversely through the picker forward of the slot and the securing means is a metal clip which passes through the hole and

3

has its ends conjoined and adapted to engage the back of stick.

3. A picker for an underpick loom as claimed in claim 2 in which the bearing wall of the hole is rearwardly rounded and the metal clip is a unitary strip engaging said wall and the ends extend rearwardly and are oppositely relatively adjusted by the means operatively engaging the two rearwardly extending ends of the metal clip.

References Cited in the file of this patent

UNITED STATES PATENTS

39,714 Cady ----- Sept. 1, 1863

561,269

2,008,669

2,084,102

2,222,351

2,222,352

2,222,353

2,324,752

2,386,629

2,487,296

2,546,643

2,561,635

2,576,790

2,586,065

4

Moody ----- June 2, 1896

Hornung ----- July 23, 1935

Merrick ----- June 15, 1937

Lewis ----- Nov. 19, 1940

Lewis ----- Nov. 19, 1940

Lewis ----- Nov. 19, 1940

Yelm ----- July 20, 1943

North et al. ----- Oct. 9, 1945

Bergstrom ----- Nov. 8, 1949

La Rocque ----- Mar. 27, 1951

Prochaska ----- July 24, 1951

Huguley ----- Nov. 27, 1951

La Rocque ----- Feb. 19, 1952