June 5, 1928. 1,672,505

K. A. STOCKER

HARNESS STRAP FOR LOOMS

Filed June 29, 1926

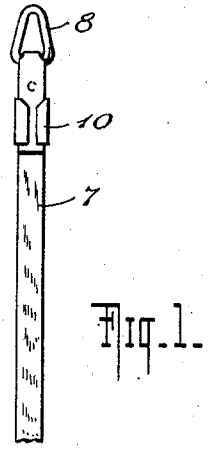


Fig. 1.

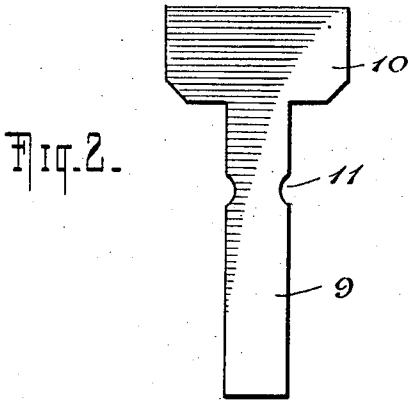


Fig. 2.

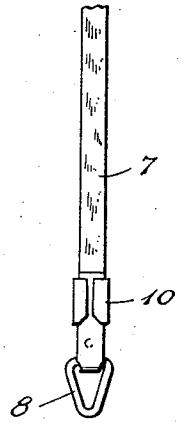


Fig. 3.

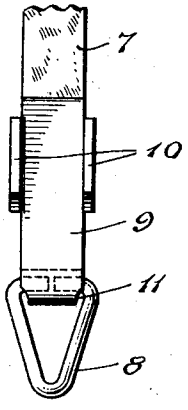


Fig. 5.

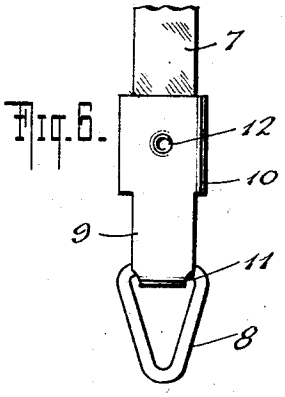


Fig. 6.



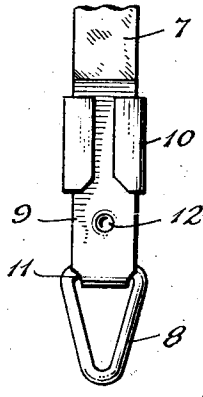


Fig. 4.

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UNITED STATES PATENT OFFICE.

KARL AUGUST STOCKER, OF RICHMOND HILL, NEW YORK.

HARNESS STRAP FOR LOOMS.

Application filed June 29, 1926. Serial No. 119,278.

This invention relates to improvements in harness straps for looms.

It has heretofore been customary to employ harness straps of braided cords and other materials for use on looms, but in actual practice the rate of replacement of these straps is very high, due primarily to inherent weakness of the material of which the straps are made.

An object of the present invention is to increase the efficiency of the strap whereby to effect a reduction in the number of replacements and a consequent saving in operation costs.

Another object is to provide a connector for a harness strap of simple and inexpensive construction, which will be effective in securely connecting the strap with a link usually employed for joining the strap to the associated parts of the loom.

The above and other objects will appear more clearly from the following detail description, when taken in connection with the accompanying drawing, which illustrates a preferred embodiment of the inventive idea.

In the drawing—

Figure 1 is a plan view of a harness strap for looms constructed in accordance with the invention;

Figure 2 is a plan view of a blank from which the connector is made;

Figure 3 is a similar view showing an initial step in the process of attaching a connector to the body portion of the strap;

Figure 4 is a plan view of one side of the connector in its assembled form;

Figure 5 is an edge elevation, partly broken away and shown in section; and

Figure 6 is a plan view of the reverse side from that shown in Figure 4.

In accordance with the present invention it is proposed to employ shark skin in the manufacture of the strap and in so doing the skin is treated to remove therefrom its inherent resiliency or "stretch". Through actual experimentation it has been found that straps made of this material have long outlasted the straps now commonly used in loom harness and have consequently reduced materially the number of replacements with the result that the machines, which must be stopped to make such replacements, may be run with more efficiency than heretofore.

The body portion 7 of the strap is consequently formed from a strip of shark skin of suitable length and treated to remove, as much as possible, the natural resiliency of the material.

It is desirable that each end of the strap have connected thereto a link 8 for attachment to the associated parts of the loom. For this purpose there is provided a connector which, as shown in Figure 2, is formed of a single piece of metal stamped or otherwise cut from a suitable sheet. The connector, before bending, is of substantially T-shape formation including a shank 9 and a head 10. Intermediate the ends of the shank the same is notched, as indicated at 11, at opposite points of the longitudinal edges thereof. The shank is of substantially the same width as the body portion 7 and when securing the latter to the connector one end of said body portion is placed upon the outer end of the shank with the extremity of said body terminating adjacent said notches. The shank is then bent upon itself, at said notches, leaving sufficient space between the end of the body portion and the bight of the connector for insertion of the ends of the link 8. With the two portions of the shank now engaged on opposite sides of the body 7 said portions are instruck, as indicated at 12, to fasten the parts together. The wings 13 of the head 10 are then bent about and overlapped with the free end of the shank to further clamp the connector to the body 7 thus forming a secure connection between the parts which will readily withstand the stress applied thereto during the operation of a loom.

What is claimed is:

A connector for a harness strap for looms formed of a single piece of material and including a shank with a head at one end providing opposed wings, said shank being notched at opposed points intermediate its ends and bent at said notches to engage portions thereof with opposite sides of a strap which is extended longitudinally of said shank, and said wings being bent over into contact with said strap, the end of the strap between said portions of the shank being spaced from the bent portion of the latter to provide a space for receiving part of a link which also engages in said notches, and said shank and the center of said head being instruck into said strap on opposite sides of the connector.

In testimony whereof I have affixed my signature.

KARL AUGUST STOCKER.