B. C. SAVAGE
JACK HOOK HOLDER FOR LOOMS
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FIG. 1.

FIG. 2.

FIG. 3.

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This invention relates to looms and, among other objects, aims to provide improved jack hook holders for connecting jack sticks to the harness frames. The principal object is to provide a metal jack hook holder adapted to supplant the usual leather straps applied to loom harnesses.

Another object is to provide jack hook holders made of thin, strap metal adapted to be applied directly to loom harness frames and having latch members to prevent them from becoming disengaged therefrom.

Other aims and advantages of the invention will appear upon the following specification, when considered in connection with the accompanying drawing, wherein:

Fig. 1 is a front elevation showing a loom harness having the preferred form of jack hook holders applied thereto;

Fig. 2 is a front elevation of one of the jack hook holders; and

Fig. 3 is a side elevation of the jack hook holder shown in Fig. 1.

Referring more particularly to the drawing, the jack hook holder is shown as being applied to a loom harness which is operated in the usual manner. The harness frames are usually connected to a jack stick by means of ordinary leather straps and experience has demonstrated that such hooks will hang on adjacent harnesses and cause splits, sheds, drop threads, overpicking, and other defects. Moreover, leather straps are subject to stretching and sometimes become disengaged from the hooks. The present invention provides a greatly improved jack hook holder which eliminates such defects and avoids the possibility of slipping, stretching, or disengagement of the hooks from the harness.

In Fig. 1, there is shown an ordinary harness having a frame 10 connected to a jack stick 11 adjacent to its opposite ends by means of my improved jack hook holders. The jack stick is adapted to be connected to the usual, cam operated treadle 12 by means of an adjustable stirrup 13, which forms no part of the present invention.

In accordance with this invention, the lower frame member of the harness 10 is connected to the opposite end portions of the jack stick by means of my improved jack hook holders secured to the usual jack hooks 14 having screw eyes or eye bolts 15 screwed into the jack stick.

In this example, the jack hook holder is made of thin, strap metal and comprises a shank 16 bent at its upper end to provide a hook 17 adapted to straddle the lower frame member of the harness. The lower end of the hook 17 is shown as being slightly tapered to avoid striking an adjacent harness frame. The bottom of the hook member has an opening for receiving a screw bolt 18 passing through the shank 16 of the hook 17. A rivet 19 is rigidly secured in the shank 16 just above the bolt 18, to provide a pintle for a locking latch member 21 shown as being pivotally mounted on the opposite end of the rivet. The upper end of the latch terminates adjacent to the lower end of the bolt of the hook 17. The arrangement is such that the latch member 21 will prevent the hook 17 from being disengaged accidentally from the bottom frame member of the harness. Further, the latch member 21 can be swung to the right or left, as shown in Fig. 2, to permit the hook 17 to be hooked on or removed from the lower frame member of the harness. Its lower end has an opening to receive the screw bolt 18 on the opposite side of the wire hook 19.

When the holder is thus engaged with the lower frame member of the harness, the nut 22 on the bolt is tightened against the bottom end of the latch member to secure the holder to the hook. The nut is shown as being locked on the bolt by a cotter pin 23, to prevent it from loosening due to vibrations.

When the jack hook holders are secured to the harness frame in accordance with this invention, it is impossible for them to become accidentally disengaged and thereby destroy fabric, as hereinbefore explained. Moreover, the shape of the holders prevents them from conflicting with or catching in the adjacent harnesses. They are not subject to stretching or breaking. They can easily be connected and disconnected by unskilled workmen. No adjustments are required. Such holders can be made and applied at a cost commensurate with that of applying other types of holders.

Obviously, the invention is not restricted to the particular embodiment thereof herein shown and described.

What is claimed is:

1. A holder for connecting jack hooks to a loom harness comprising a flat metal shank adapted to be clamped on a jack hook and having an integral, U-shaped hook member to engage a harness frame; a latch member spaced from and pivotally mounted on the lower end portion of said shank to lock the holder on the frame member; and means for clamping the lower ends of the shank and latch member on the jack hook.

2. A jack hook holder, as set forth in claim 1,
wherein said metal shank, including the hook member, and the latch are made of strap metal; and wherein the clamping connection to the jack hook comprises a bolt passing through the lower ends of the shank and the latch, said bolt having a nut locked thereon.

3. A jack hook holder, as set forth in claim 1, wherein said metal shank, including the hook member, and the latch are made of strap metal; and wherein the clamping connection to the jack hook comprises a bolt passing through the lower ends of the shank and the latch, said bolt having a nut locked thereon; and wherein the pivotal connection of the latch comprises a rivet carried by the lower end portion of the shank and spaced from the clamping bolt, said latch being pivotally mounted thereon and adapted to be swung laterally to its unlocking position when the clamping bolt is removed.

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The following references are of record in the file of this patent:

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