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TWINE HEDDLE

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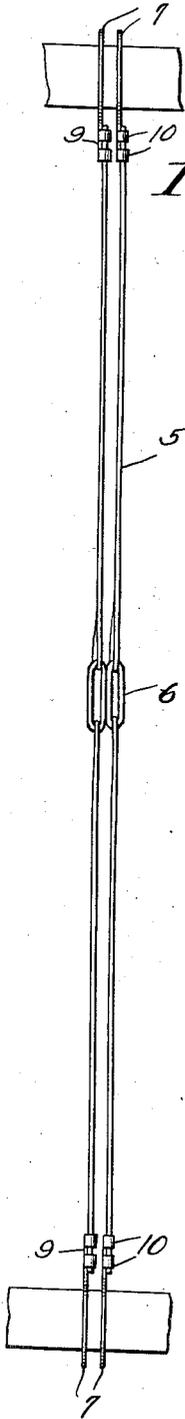


Fig. 1.

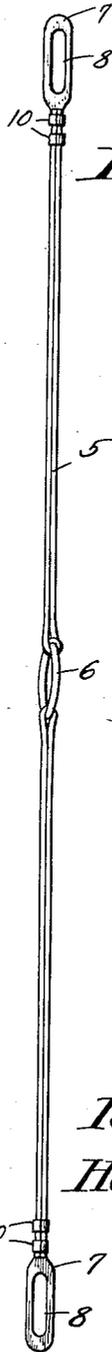


Fig. 2.

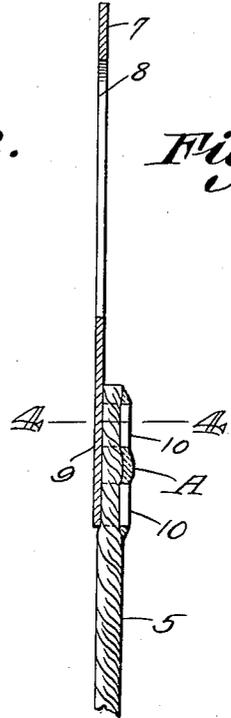


Fig. 3.



Fig. 4.

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# UNITED STATES PATENT OFFICE

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## TWINE HEDDLE

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### 1 Claim. (Cl. 139—93)

This invention has reference to twine heddles for looms and aims to provide a loom harness constructed of independent twine heddles, which may be readily removed or replaced, thereby providing an adjustable loom harness adapted for use in weaving various grades of cloth and eliminating the necessity of changing the entire harness, when it is desired to weave a different grade of cloth than the grade of cloth for which the harness has been set up.

An important object of the invention is to provide twine heddles which may be used with metal supporting shafts, the eyes at the ends of the heddles being constructed to withstand the wear to which they are subjected by contact with the metal supporting shafts of the harness.

Another important object of the invention is to secure metal eye members at the ends of the heddles, so that the eye members will not become disconnected from the twine, while in operation and under the weight of the harness.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

Referring to the drawing:

Figure 1 is a fragmental elevational view disclosing a loom harness constructed of removable independent heddles.

Figure 2 is an elevational view of a twine heddle constructed in accordance with the invention.

Figure 3 is an enlarged longitudinal sectional view through an eye member secured to heddle twine.

Figure 4 is a sectional view taken on line 4—4 of Figure 3.

Referring to the drawing in detail, the reference character 5 designates a twine heddle, which is constructed in the usual manner on the well known heddle knitting machine, the heddle being provided with a central eye 6.

At each end of the twine heddle, is an eye member indicated by the reference character 7, the eye member being constructed of sheet metal material and provided with an elongated eye 8 for the reception of the usual metallic heddle supporting bars of a loom structure. Each of these eye members 7 is formed with a shank 9, to which the ends of the heddle twine, are secured.

The securing means include pairs of spaced clips 10, formed integral with the shank 9, the clips extending from opposite side edges of the shank 9, where they may be bent over the twine heddle, securing the eye members in position. As clearly shown by the drawing, portions of the twine heddle are exposed between the pairs of clips 10, and provide a surface on which the varnish used in coating the twine heddle, builds up, forming an enlargement between the pairs of clips as indicated at A, to anchor the eye members to the twine, and prevent the eye members from being pulled from the twine, under the weight of the twine harness and strain under which the heddles are subjected, while in operation.

From the foregoing, it will be seen that due to the construction of the loom harness, the number of heddles may be increased or decreased thereby adapting the harness for use in weaving various grades of cloth fabric, and eliminating the necessity of replacing the entire loom harness with a loom harness of another size.

Having thus described the invention, what is claimed is:

A twine harness for looms comprising a plurality of independent twine heddles, including twine members, metallic eye members, spaced securing members on each eye member and adapted to be pressed into engagement with the twine members at their ends, securing the twine members together, and the space between the securing members adapted to accommodate varnish when the heddle is dipped during the varnish coating step in the manufacture of heddles, anchoring the eye members to the twine.

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