Oct. 18, 1927. 1,645,571

I. ANDREWS

LOOM HARNESS

Filed Aug. 4, 1926

Fig. 1.

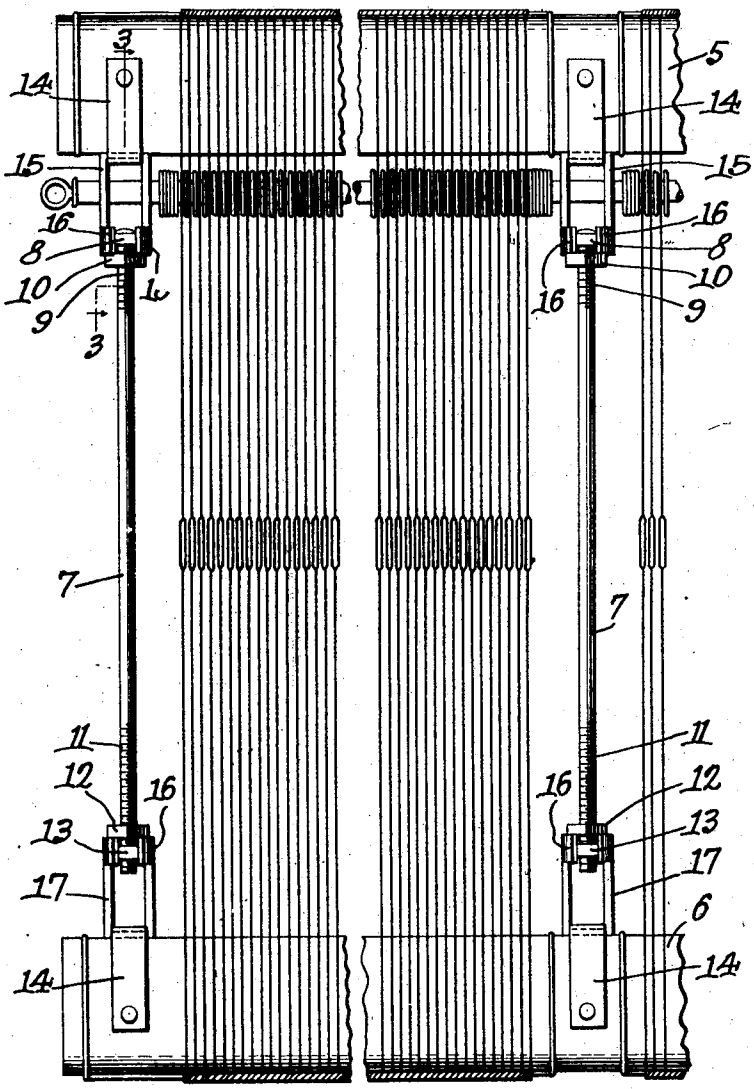


Fig. 2.

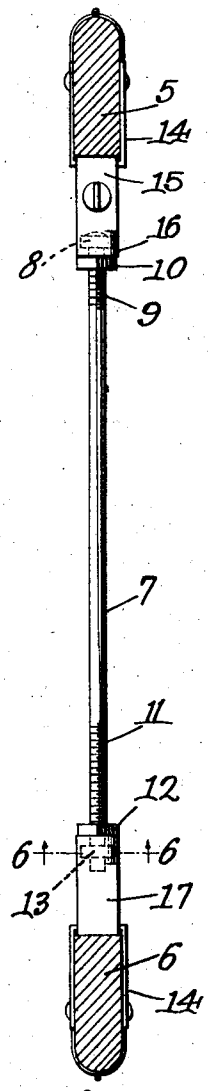


Fig. 3.

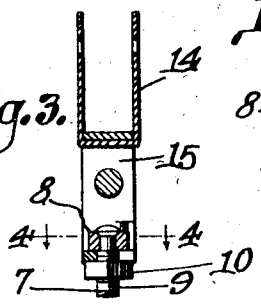


Fig. 4.

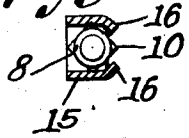


Fig. 5.

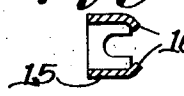


Fig. 6.



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UNITED STATES PATENT OFFICE.

ISAAC ANDREWS, OF SPARTANBURG, SOUTH CAROLINA.

LOOM HARNESS.

Application filed August 4, 1926. Serial No. 127,135.

This invention relates to a supporter for loom harness, the primary object of the invention being to provide novel means for holding the harness shafts in spaced relation with each other to relieve the twine harness of the strain of the shafts while in use.

An important object of the invention is to provide means whereby the rods used at the ends of the loom harness shafts may be readily and easily disconnected to faciltate the drawing in operation, and repairing of the harness.

Another important object of the invention is to provide means for locking the ends of the rods to the harness shafts to insure against accidental displacement thereof.

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 an elevational view of a loom harness illustrating connecting members constructed in accordance with the invention.

Figure 2 is an end elevational view thereof.

Figure 3 is a sectional view taken on line 3—3 of Figure 1.

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

Figure 5 is a view similar to Figure 4, the head of the rod being shown removed.

Figure 6 is a sectional view taken on line 6—6 of Figure 2.

Referring to the drawing in detail, the loom harness embodies the harness shafts 5 and 6 respectively, to which the twine harness is connected in the usual and well known manner.

The connecting rods forming the essence of the present invention are indicated by the reference character 7, and as shown, are disposed at the ends of the harness shafts, there being however, one provided at a point intermediate the ends of the shafts to support the intermediate portions thereof.

Each of these rods is formed with a head 8 at its upper end, and a threaded portion 9 to accommodate the nut 10, while the opposite end of each rod is threaded as at 11 to accommodate the nuts 12 and 13.

The reference character 14 indicates a substantially U-shaped connecting member, employed in connection with each end of the rod, and associated with each connecting member 14 is a substantially rectangular connecting member 15, that has a cut out portion to receive the head 8 of the rod associated therewith.

The forward edges of the connecting members 15 are extended inwardly as at 16 to the end that the heads will be securely held in the connecting members 15 against lateral movement, and may only be removed by elevating the rods 7 so that the heads 8 will be above the upper edges of the inwardly extended portions 16, whereupon the rods may be moved laterally.

The connecting members on the lower shaft 6, are identical with the connecting members secured to the shaft 5, and are indicated by the reference character 17. When the rods are connected with the members 17, the nuts 13 thereof are positioned within the connecting members and the nuts 12 are moved into close engagement with the connecting members locking the nuts 13 in position.

The nuts 10 at the upper ends of the rods 7 are also operated to closely engage the lower edges of the connecting members 15, to hold the heads 8 within the connecting members 15.

From the foregoing it will be obvious that should it be desired to disconnect one of the rods 7 from its connecting member, it is only necessary to loosen the nut 10 associated therewith, whereupon the rod may be lifted and the head 8 moved from its position, allowing the upper shaft 5 to be swung laterally to facilitate the cleaning or drawing in operation.

From the foregoing it will be seen that due to the construction shown and described, a support for the shafts of twine harness is provided, which will hold the shafts of a loom harness in predetermined spaced relation with each other, but at the same time permit of easy removal of the ends of the rods from their connecting members, as above described.

I claim:

1. In a device of the character described, loom harness shafts, rods for holding the

shafts in spaced relation with each other, connecting members at the ends of the rods and secured to the shafts, said connecting members including rectangular members having one of their edges cut away, portions adjacent to the cut away portions being extended inwardly, said rods having heads adapted to be positioned behind the inwardly extended portions of the connecting members, and lock nuts on the rods for holding the heads within their connecting members.

2. In a device of the character described, loom harness shafts, connecting members secured to the shafts, each of said connecting members including a substantially U-shaped member and a rectangular member passed under the U-shaped member and secured thereto, said rectangular member having one of its edges cut away, the portions thereof adjacent to the cut away portions being extended inwardly, rods having heads at their upper ends adapted to be positioned behind the inwardly extended portion of the rectangular connecting members, and means for locking the heads to the connecting members.

3. A loom harness including harness shafts, connecting members secured to the shafts, said connecting members having flanges formed with cut out portions, rods having their ends positioned in the cut out portions to removably secure the rods to the connecting members, and means for locking the rods and securing members together.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

ISAAC ANDREWS.