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HARNESS TAPE SELVAGE MOTION FOR LOOMS

Filed April 28, 1928

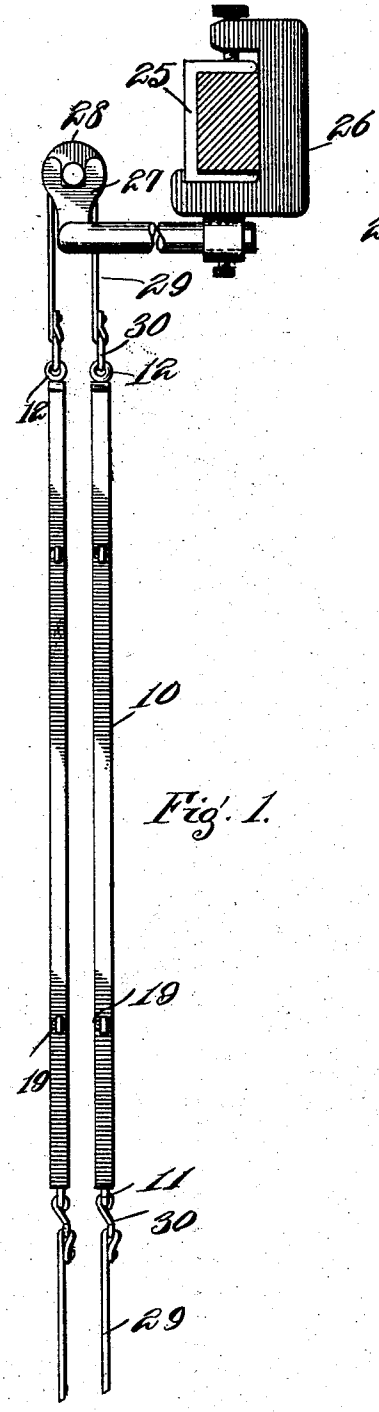


Fig. 1.

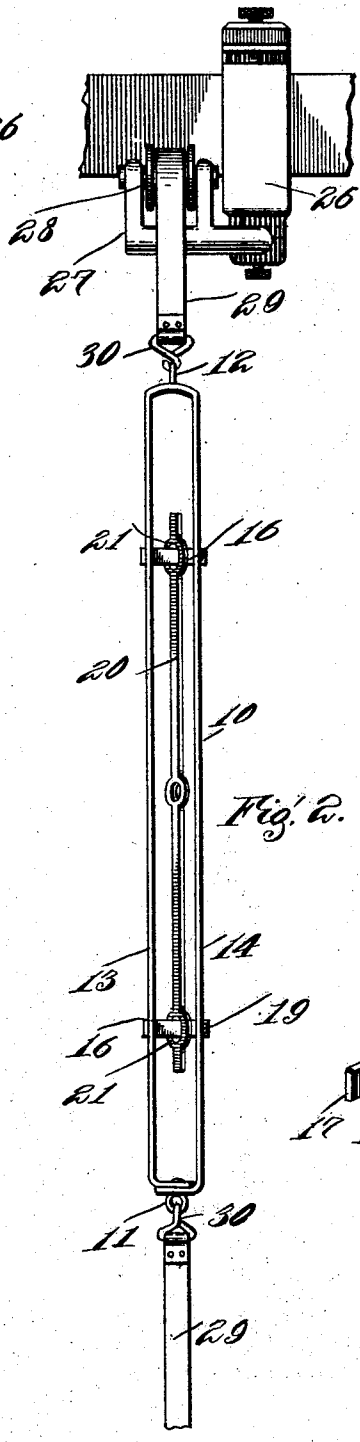


Fig. 2.

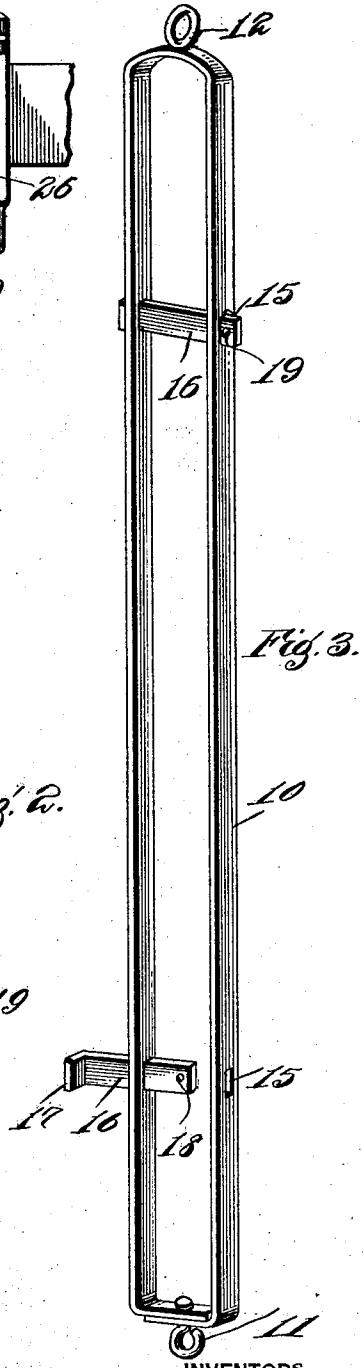


Fig. 3.

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UNITED STATES PATENT OFFICE

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HARNESS-TAPE-SELVAGE MOTION FOR LOOMS

Application filed April 28, 1928. Serial No. 273,570.

This invention relates to harness for tape selvage motion for looms.

The usual type of selvage harness requires a longer heddle than those used in the regular harness, and owing to their lack of rigid construction, excessive wear is caused on certain parts, and it is also impossible to successfully remove the selvage harness with the other harness for re-tying warps. Moreover, the ordinary selvage harness requires special help to re-draw the selvages, and consequently loss of production incident to said re-drawing is caused.

This invention is designed to overcome these objections and a primary object thereof is to so construct a harness of this character that it may be used with the heddles used in connection with the usual harness; which reduces wear of the parts to a minimum; and which may be readily removed for re-tying warps.

Another object is to construct such a harness so that the necessity of extra equipment is avoided and which provides for the easy and perfect alinement of the heddles, and which permits the loom to be started up without the delay incident to obtaining special help for re-drawing the selvages.

Another object is to so construct a harness of this character that no special heddles are required and use of which effects saving of labor and increase in production.

In carrying out these objects, the invention is susceptible of a wide range of modification without departing from the spirit or sacrificing any of the advantages of the claimed invention there being shown in the drawings for illustrative purposes a preferred and practical form in which:

Figure 1 represents a side elevation of the harness embodying this invention shown mounted on the usual loom arch;

Fig. 2 is a front elevation thereof, and

Fig. 3 is a perspective view of the harness detached, with one of the heddle supporting bars partially withdrawn.

In the embodiment illustrated, the harness constituting this invention comprises a frame 10 constructed of a continuous metal strip of suitable length, bent into substantially rectangular shape with its ends overlapping at the lower end of the frame and secured by an eye bolt 11. A similar bolt 12 is riveted in the top of the frame opening in a plane at right angles to the eye 11 and the frame 10.

The side members 13 and 14 of the frame 10 have longitudinal slots 15 to receive heddle supporting bars 16. The slots in one member aline with those in the other. Each bar 16 has one end 17 bent at right angles and the other apertured as shown at 18 to receive a cotter pin 19 which holds the bar in operative position in frame 10.

Heddles 20, of usual length, such as those employed in warp frames, are strung on the bars 16 by means of the eyes 21 of the heddles through which the bars pass, as is shown in Fig. 2. It is to be understood that any required number of heddles may be supported on these bars. The frame 10 in its complete form is attached to the loom arch 25 and held in its required position by the usual clamps 26, brackets 27, rollers 28, strappings 29 and hooks 30.

The frame is operated by the usual cams and treadles located at the bottom of the loom and which are not shown, as they form no part of the invention.

From the above description it will be obvious that a harness constructed as herein described may be used in connection with the ordinary heddles 20 employed in warp frames and the frame being substantially of rigid construction, excessive wear on the parts is avoided. Moreover, it is obvious that this harness may be tied to the regular harness and removed with the same for the re-tying of warps, thus avoiding the necessity of having special help for re-drawing the selvages, and of the delays incident to having to wait for such help, thus permitting the loom to be started up sooner than it would otherwise be done.

It will thus be seen that one of the important features of the invention is the dispensing with special heddles and the expense incident thereto, as well as effecting a saving of labor and increase in production.

Without further description it is thought that the features and advantages of the in-

vention will be readily apparent to those skilled in the art, and it will of course be understood that changes in the form, proportion and minor details of construction may be resorted to, without departing from the spirit of the invention or its scope as claimed.

We claim:—

A selvage harness for looms, comprising a substantially rectangular loop formed of a continuous strip of metal with the ends thereof lapped and secured together, at the base of said loop, attaching elements at the top and bottom of said loop, the lower attaching element securing the lapped portion of said loop in fixed relation, portions of the side walls of said loop having slots, and substantially rectangular heddle supporting bars mounted in said slots, each of said bars being bent at one end to form a shoulder for limiting the longitudinal movement of said bar in one direction of motion through said slots and an aperture at the other end for cooperation with fastening means for limiting longitudinal movement of said bar in an opposite direction through said slots and a heddle having eyelets engaged about said bars to mount said heddle.

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