

B. McANEANY.
LOOM HARNESS.

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1,036,132.

Patented Aug. 20, 1912.

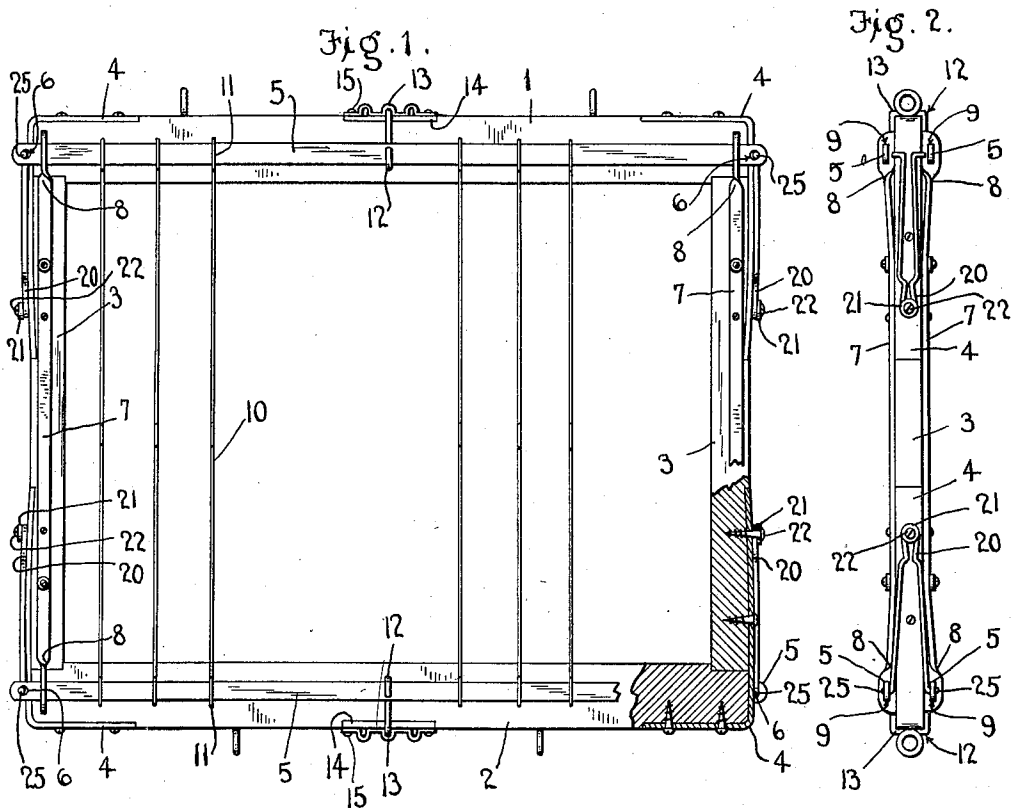


Fig. 3.

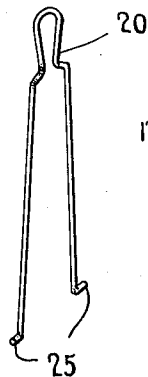


Fig. 4.

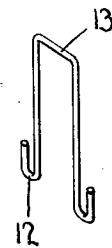
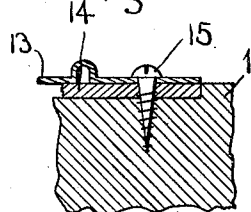


Fig. 5.



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UNITED STATES PATENT OFFICE.

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LOOM-HARNESS.

1,036,132.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, BERNARD McANEANY, a citizen of the United States, residing at Fitchburg, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Loom-Harness; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to looms, and more especially to the harness frames thereof; and the object of the same is to improve the construction of such a frame, to greatly strengthen it without complicating its mechanism, to adapt it to carry two rows of heddles, and to provide adjustability in the position of the heddle-bar latches. These objects are accomplished by the construction hereinafter more fully described and claimed, and as shown in the drawings wherein—

Figure 1 is a front elevation of this improved heddle frame with the metal strip and heddle bar omitted at one corner of the frame and the strap iron brace and latch at the corner shown in section. Fig. 2 is an end elevation of the frame with the arms of one of the latches sprung inward to disengage the heddle bar. Fig. 3 is a perspective detail of one of the latches. Fig. 4 is a perspective detail of one of the hooks. Fig. 5 is an enlarged detail of one of the plate adjusting screws.

In the drawings the numerals 1 and 2 designate the top and bottom bars of the wooden heddle frame, and 3 are its upright end bars mortised into the ends of the top and bottom bars as shown, while 4 designates strap-iron braces secured around the several corners of the frame so as to strengthen the wooden portions thereof.

The numerals 5 designate heddle bars having eyes 6 at their extremities, and by preference there are four of such bars used with each frame, two being on each side thereof as best seen in the end view. As the construction of the devices on both sides of this frame is alike, I need describe but one; and as this construction is duplicated at each end of the frame, I need describe that at but one end.

Secured to the face of the end bar 3 is an upright metallic strip 7 twisted as at 8 near its upper and lower ends and provided

above and below said twists with slots 9 through which the heddle bars pass loosely. The heddles 10 are of the usual or of any preferred construction, and have elongated loops 11 at their extremities which are loosely mounted on the bars 5; the center of each bar being supported by a hook 12 which is of U-shape as seen in Fig. 4 and has its center passing over a leather strip 14 and under one of the several bends in a plate 13 mounted on the edge of the frame so that the hook in the end opposite the one shown in Fig. 1 may support the heddle bar at the other side of the frame, as well understood. These plates 13 may be held by any suitable means, but preferably I employ screws 15 as shown in Fig. 5. The hooks divide each bar into halves, each half being that portion between the hook and one of the eyes, and on each half is disposed a group of the heddles as shown. There being two groups on each pair of bars, there are necessarily four groups in each heddle frame.

One feature of my invention consists in the particular form of latch employed to hold the heddle bars in place. Each latch is of the construction best seen in Fig. 3 and comprises a substantially U-shaped body of spring wire whose looped end is engaged under a washer 21 held by a set screw 22 which passes inward through the strap iron brace and engages the end bar 3 of the frame as shown in section lines in Fig. 1, and the arms of the latch have a normal tendency to spring outward and are bent outward at their extremities into tips 25 adapted to engage the eyes 6 in the heddle bars as seen in Fig. 1. Such tips are by preference made somewhat smaller than the eyes so that if these elements do not register exactly it may not be necessary to adjust the latch, but in order to effect this adjustment it is clear that the set screw will be loosened and the latch slid under its washer in a manner well understood. By pressing the two arms of the U-shaped latch toward each other, the two eyes in both heddle bars may be simultaneously disengaged; or when but one arm of the latch is pressed inward as seen in Fig. 2, the eye at that end of the heddle bar is disengaged while the eye of the companion heddle bar is not.

It will not be necessary to amplify the uses of this invention, because they are well understood by those familiar with the art.

Nor do I confine myself to the precise details or materials of parts, and changes therein may be made without departing from the principle of my invention.

5 What is claimed as new is:

1. In a loom harness, the combination with the heddles having loops in their extremities, and a pair of heddle bars loosely engaging said loops and themselves having eyes in their extremities; of a rectangular heddle frame, strap-iron braces over the corners thereof, metallic strips secured to the sides of the end bars thereof, twisted near their ends, and provided with slots beyond
15 said twists through which said heddle bars pass loosely, set screws passing through said braces and into the end bars of the frame, washers under the heads of said screws, and spring latches each having a loop at one end
20 adjustably held by a set screw and washer and a hook at its opposite extremity removably engaging the eye of one of said heddle bars.

2. In a loom harness, the combination with the heddles having loops in their extremities, and a pair of heddle bars loosely engaging said loops and themselves having eyes in their extremities; of a rectangular heddle frame, metallic strips secured to the sides of the end bars thereof and provided with slots through which said heddle bars
30 pass loosely, set screws in the end bars of the frame, washers under the heads of said screws, and spring latches each having a loop at one end adjustably held by said set
35 screw and washer, and a hook at its opposite extremity removably engaging the eye of one of said heddle bars.

3. In a loom harness, the combination
40 with the heddles having loops in their ex-

trémities, and a pair of heddle bars loosely engaging said loops and themselves having eyes in their extremities; of a rectangular frame, strips carried by the sides of its end bars and having slots loosely engaging the
45 ends of said heddle bars, latches also carried by said end bars and detachably engaging the eyes in the heddle bars, a leather strip inset into each edge of the frame, a plate over the strip and having bends in its body, 50 screws through the plate and strip and into the frame, and a U-shaped hook whose bent body passes over the strip and under one of said bends and whose bills engage beneath a pair of said heddle bars. 55

4. In a loom harness, the combination with two sets of heddles having loops at their ends, and two pairs of heddle bars engaging said loops and having eyes through their ends; of a frame disposed between said sets
60 of heddles and pairs of bars, a pair of guides at each end and secured to opposite sides of the frame for removably supporting the ends of the two heddle bars, the latter projecting through said guides and beyond the
65 ends of the frame, a U-shaped spring latch whose arms have outturned tips at their extremities removably engaging the eyes of said bars and whose bend lies against the end of the frame at this point, and a set
70 screw passing through said bend into the frame.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

BERNARD McANEANY.

Witnesses:

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