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Patent Search

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Abstract:

The present invention relates to a striker - shuttle assembly for looms for weaving yarn and fabrics using a single hand and with a pedal mechanism. The striker shuttles comprises of a right solenoid, left solenoid, right pedal (24a), left pedal (24b), thumb switch (19), combination of limit switches (L1) and (L2). On actuation of the right and thumb switch (19), right solenoid is energized which causes the striker to hit the shuttle (20) and on releasing the thumb switch (19) and relieving the right pedal solenoid is deenergized and the solenoid shaft (5) is moved to its initial position and similar action is carried out on the left side on actuation of the left pedal (24b) and switch (19) to energize the left solenoid.

Complete Specification

DESC:IMPROVED STRIKER AND SHUTTLE ASSEMBLY FOR LOOMS AND A METHOD THEREOF

FIELD OF THE INVENTION

5 The present invention relates to a loom for weaving. More particularly, the present invention relates to a weaving loom with improved striker and shuttle assembly and pedaling mechanism for weaving yarns and fabrics using a single hand by the operator. Further, the invention relates to a method of operation of the weaving loom with improved striker and shuttle assembly and pedaling mechanism.

10 Advantageously, the present invention increases the productivity of the weavers.

BACKGROUND OF THE INVENTION

Generally, the loom is a device used to weave yarns and fabrics. The basic purpose of any loom is to hold the warp threads under tension to facilitate the interweaving of the weft threads. The handloom weavers need to use both his hands to move the shuttle and to fix the weft.

Conventionally, the pedal looms were developed in which the weaver can use both

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