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Expansion of the assortment possibility libit-warping machines for fabrication national avrova fabrics

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ABSTRACT: In article is brought about expansion of the assortment possibility libit warping of the machines for fabrication national avrova fabrics. It Is Designed modernized libit- warping drum allowing adjust in dependencies amount threads fuelled on libit- warping drum. New design drum to allow, reduce breakaway under warping and will raise the quality national avrova fabrics

KEYWORDS: libit - warping machine, Avrova fabrics, threads Main, , fabrics «AvrovaBekasam», Avrband way, fabrics «Hon-atlas», regulative try square, capacity of the machines.

I.INTRODUCTION

In the world exists five ways warping: партионная, band, sectional, full and Libit [1]. Of them libit-way warping is used for fabrication national avrovs fabrics type "Honatlas", "Adras", "Snipe" used in republic of the Central Asia. At present plenty of demand is used in Uzbekistan and Tadzhikistane and for his(its) limit. Avrova fabrics "Honatlas" and "Avrova Snipe" is brought on Fig. 1.



Fig. 1. Fabrics "Hon-atlas" and "Avrovyy Snipe"

The Technological processes of the fabrication e nationaаврвоных fabrics labour-consuming they comprise of itself more than 20 processes. As threads of the base is used threads of the boiled natural silk (NSH). It Is Required specialists to high qualification. Isplizuetsya natural dye staffs. Avrova Fabrics is used for пошива feminine and male paid, suit coat chapans, tie of the headdresses of the different age of the people

From other traditional fabric these fabrics differs that that drawing fabrics is formed before weaving avrband way [2]. Before avrband of the process to threads of the base from spool or from reel from natural silk NSH in libits are reelled on libit-warping drum. The Number of the threads in libits depending on drawing fabrics consists 20-80 threads. Amount libits in base is defined,

$$K_l = \frac{n_b}{n_l}, \quad (1)$$

where n_b , number of the threads in base, , n_l number of the threads in libit.

Amount of the removal libits with warping drum is defined,

$$K_{r.l.} = \frac{n_l}{\kappa_{s.n.l.}}, \quad (2)$$

where $K_{r.l.}$ amount of the removal libits for warping one base, $\kappa_{s.n.l.}$)- number libits simultaneously fuelled on warping drum.

The Amount of the threads in base and number of the threads in libit of the dependencies from drawing and article fabrics is assigned specified mode.

The number of the threads often changes At change in the assortment fabrics in libit. In the known warping drum [3] threads libit are reelled on tetragonal deepening² located on cylindrical element 1 warping of the drum (Fig.2).

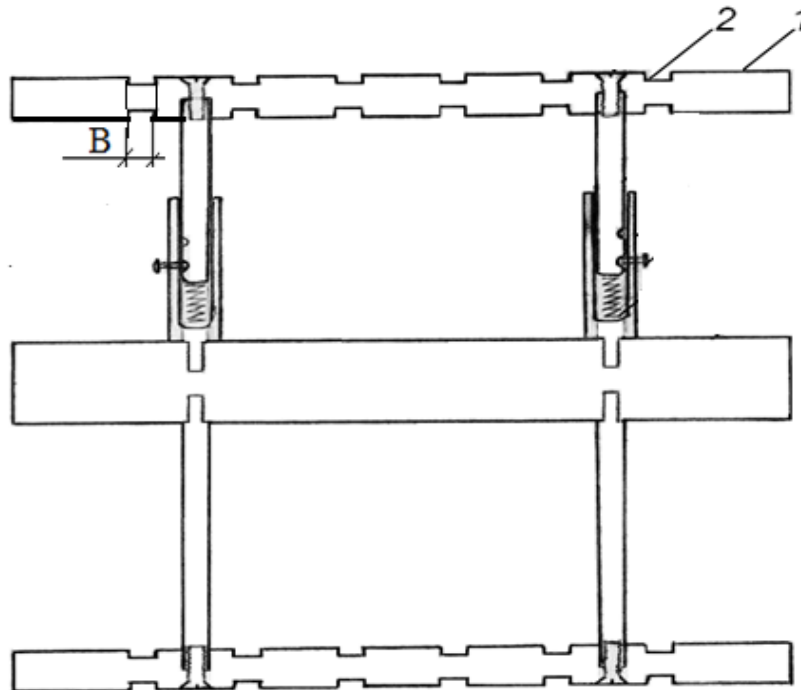


Fig.2. Existing design libit-warping drum.

The Value of the width of the tetragonal deepening "D" located on cylindrical element 1 does not allow- to reel other amount of the threads on drum. He is calculated only for one amount of the threads in libit. For turning on the other assortment fabrics necessary to install on drum other cylindrical element with corresponding to deepening by value "D". This reduces the assortment possibility an warping drum also increases threads of the base which will bring about reduction quality fabrics.

On this for the reason expansion of the assortment possibility, increasing to capacity and quality fabrics us is designed modernized design libit - an warping of the drum (Fig.3).

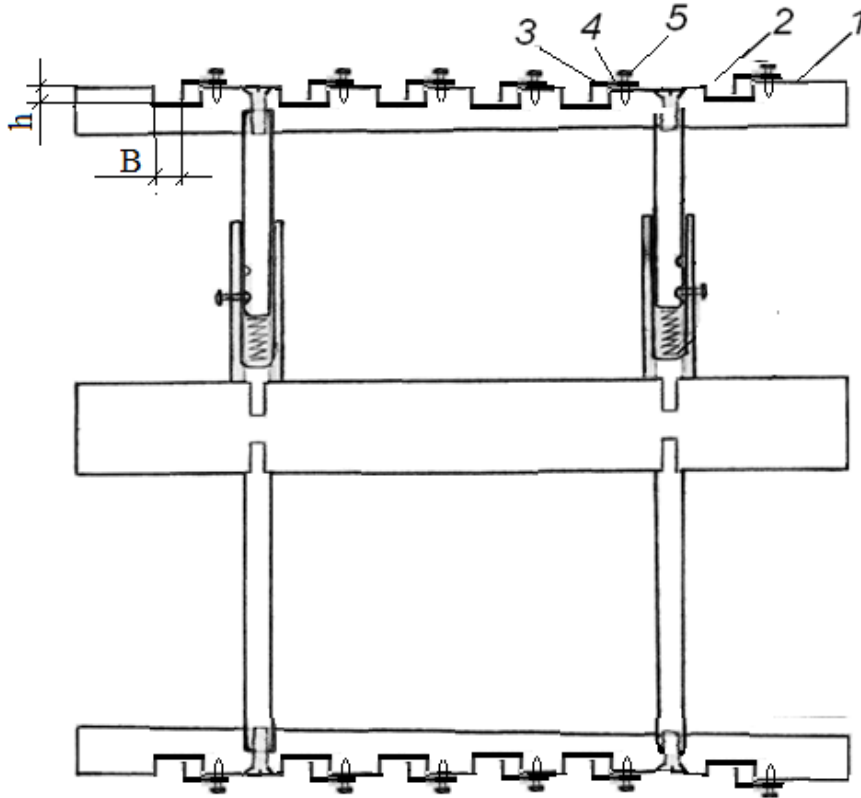


Fig.3. New design libit-warping drum.

The New design libit warping drum allows adjust; control amount of the threads reelled on deepennings 2 when change amount threads in libite of the base. As a result falls machine idle time for steep on the other assortment fabrics and falls threads because of condiment.

On fig.2 on drum on his(its) perimeter is installed six cylindrical elements 1, there is tetragonal deepennings 2 widths "D" on which. The Width deepennings "D" is adjusted. In deepennings 2 place adjusting try square 3. One side adjusting try square 3 have a special cut 4 (fig.4) with scale for exact installation value widths winding libit . In cut adjusting try square 3 (fig.3) is installed screw 5 with help which is fixed position traingle 3.



Fig.4. The Regulator try square.

The Regulation of the width libit "D" depending on amount of the threads in libit and linear density of the threads is produced as follows. When change in the assortment fabrics change for instance, increases the number of the threads reelled drum. In this case necessary to enlarge the distance "D" for this turn the screw 5 and moving regulate try square necessities distance is fixed in right and is bolted screw 5. When change amount threads in smaller side regulate try square to move to the left.

As a result when change in the assortment fabrics is not required change cylindrical element 1 each condiment libitwarping of the drum. Installation are on warping drum regulate try square to allow to allow will reduce the machine idle time steep threads, increase the quality worked out avrov fabrics 20-25%.



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CONCLUSION

1. Modernized design libit - warping drum to allow increase the assortment possibility of the machines.
2. Reduce simple at fart leading-in of the machines and to account reduction breakaway threads raises the quality an avrova fabrics.

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