

Particularities to Technologies of the Fabrication and Expansion of the Assortment National AVROVA Fabrics

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ABSTRACT: In article to lit particularities of the fabrication national avrovs fabrics type «Khan-atlas», «Adras», «Bekasam», «Banoras». The Broughted sample fabrics and processes of the reception drawing avrband by way as well as modernized libit - warping machine allowing increase the assortment national avrovs fabrics.

KEYWORDS: Avrova fabrics¹, Avrband², Avrova drawing, «Han-atlas»³, «Adras», «Beqasam», «Banoras», libit⁴, Avrova thread⁵, threads of the base, libit based roll, Avrovadraving in fabrics.

In republic of the Central Asia and for his(its) limit raised demand are used national Avrovy fabrics of the type "Khan-atlas", "Adras", "Beqasam", "Banoras". These fabrics are made from ecological clean cheese basically. As threads of the base are used threads of the natural silk (NSH), got in region of the Republic Uzbekistan. The Discriminating particularity of the fabrication avrova fabrics in contrast with the other type traditional fabric is that threads of the base in libits are painted before weaving avrband way [1]. As a result fabrics, worked out avrband way on looms, have avrova drawing (Figure1 and Figure 2).



Figure1. National fabrics from NSH with avrova drawing



Figure 2.National avrova fabrics "Adras".

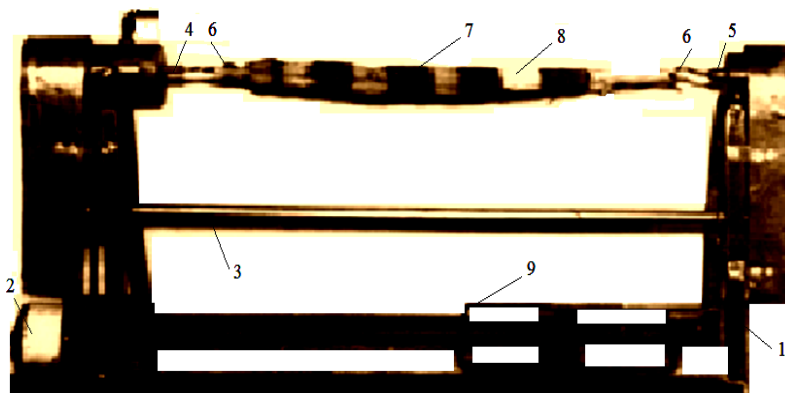
Avrband way of Paint threads of the base is concluded in that that threads of the base, got from libit-warping of the machine, in form libit tie around avrova a thread thread (from bunch pats threads)on avrband tool.

Herewith leave that area libit, which must be painted on program tie around area of the threads libit is produced to in process of the dyeing dye staff did not penetrate before threads libit. After the first dyeing painted area tie around and on program uncord other area libit for dyeing by following colour.

Averband dyeing allows to get in fabrics its figurative patterns, which differ amazing softness in turning the paint from one colour in another.

On figure 3 is brought model Avrband machines, fuelled libit of the threads of the base. On rack 1 is installed engine 2 through which by means of wedge belt issues is sent motion average gross 3. Hereinafter from average gross motion is sent to hook 4, 5 avrband of the machine. On hook is put on rope 6, which the second end is connected with libit 7. Cut-in and unhooking the machine is produced by means of treadles 9, under which is installed Include. Tie around and uncoupling libit is produced on this machine. Process of the dyeing of the threads libits is brought on figure 4 in capacities.

The Dyeing is produced in special capacity or bath. In capacities 1 is produced preparing the dye staff 4 on determined mode, are then loaded libits 2.



1 - a rack; 2 - an engine; 3 - an average gross; 4, 5 - a hook; 6 - a rope;
7 - painted area libit; 8 - not painted area libit.
9 - a treadle for enabling the machine.

Figure 3. Model Avrband machines APM-3



1- capacity for dyeing libit, 2 - a threads libit, 3 - a wooden sticks, 4- dye staff.

Figure 4. The Process of the dyeing of the threads libits.

After dyeing by one colour this area libit tie around the withavrova a thread, then uncord the following area libit for dyeing. The Amount tie around anduncouplingslibits depends on amount colour, participating on drawing in fabrics. We shall Consider for example program receptions fourcoloursavrova drawing in fabrics. Possible, for reception drawing in fabrics necessary: red, blue, yellow, white colour. On figure 5. are brought: a) principle scheme leading-in libit, b), v), g), d), e) - a stages of the processes avrband.

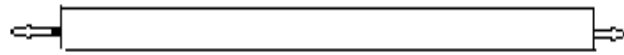


Figure 5.a) 1- Stage. Tie around libit and leaving 1- area for dyeing.

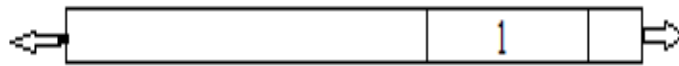


Figure 5.b) 2- Stage. The Dyeing 1- area. Tie around dyed 1- area and uncoupling 2- area for dyeing.

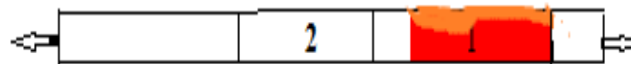


Figure 5.v) 3-Stage. The Dyeing 2- area. The Uncoupling 3- area for dyeing and tie around 2- area.



Figure 5. g) 4-Stage. The Dyeing 2- area. After dyeing 3- area are produced uncoupling all area.



Figure 5. d) Completely on given program painted threads libit.

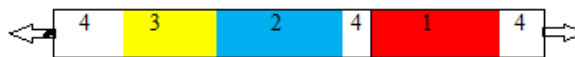


Figure 5. e) Figure 5. Avrband processes of the reception drawing in fabrics a) scheme leading-in- либита, b), v), g), d), e) stages processes.

Since NSH white colour, 4- th area libits does not be subjected to the dyeing by white colour.

The Gross amount colour on avrova drawing in this case:

$$K_{col.} = 4. \tag{1}$$

We Define gross amount an tie around libit withavrova threads.

$$K_{aro.} = K_{col.} - 1 = 3. \tag{2}$$

Where 1- amount of the white colour.

For given example from fig.4 b), v), g), d),

$$K_{aro.} = K_{dye.} = K_{unco.} \tag{3}$$

Where $K_{dye.}$ - amount operation (the processes) of the dyeing, $K_{unco.}$ - amount operation uncouplings.

Else one of the particularities of the processes of the fabrication avrovs fabric is that in process of the dyeing on program can be provided dyeing "CHinak" (kosabuyoq). "CHinak" - a selective dyeing by manual way separate small area libit. In this case, amount to operations in avrband division possible to calculate on formula.

$$K_{operati.} = K_{aro.} + K_{dye.} + K_{unco.} + K_{chin.} = 11 \text{ operations.}$$

Here, amount operation "CHinak" is accepted $K_{chin.} = 2$.

The Quality got drawing at avrband process in much depends on amount of the threads in libit and pulls of the separate threads libit.

Libity and amount of the threads in libit, pull of the threads in libit is formed on drum libit-warping of the machine. In existing libit-warpings machine because of not perfect designs of the drum occurs the uneven pull of the threads in libit [2]. For the reason removal these defect us is designed new design libit-warping of the machine (the patent FAP UZ 00651), which has allowed to avoid these defect. Besides, possibility of the expansion of the assortment possibility of the machine are provided in new design. For this purpose on drum, where are reelled threads libit is provided adjustment for regulation of the width libit.

The Width libit depends on amount of the threads in libit. The Amount of the threads in libit influences upon value the report drawing avrova fabrics. The The new design of the lint-rewinding machine allowed to expand the assortment possibilities of the machine and increased the quality of the fabric. In addition, to improve the quality of the fabric, we developed a new design of the crushing mechanism[3].



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CONCLUSIONS

1. It Is Made analysis and particularities of the fabrication Avrovih fabric «Khan-atlas», «Adras», «Snipe» and «Banoras».
2. Is Cited an instance scheduling the program and calculation amount processes for reception avrova drawing on avrband tomashine.
3. A new design of a lithium-reel drum and a batan mechanism of a loom is proposed, which allows to increase the quality and expand the assortment of auric fabric.

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