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# Development of New Tapes of Special Purpose

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**ABSTRACT:** In the proposed new design program for special purpose ribbons, we proceeded from specific interpretations of meanings inherent in national and historical expressions, taking as a basis the era of Amir Timur. For the design of special purpose tape, a technology has been developed for the production of polyester jacquard taps for special purposes. The choice of raw materials is carried out taking into account the possibilities of jacquard equipment.

**KEYWORDS:** design program, special purpose tape polyester, jacquard tape, jacquard equipment.

## I. INTRODUCTION

Creation of the necessary assortment is possible on the basis of multivariate and variational solutions for the design of fabrics and products. Computer design allows not only to create, but also to improve a complex product, to evaluate and approve it not in a real enterprise, but in a virtual reality. This is especially true for expensive, complex, unique technological complexes. The paper proposed a method for designing a computer, compiling code descriptions of interlaces on a computer basis, a dissonant interpretation. The coding system - a model of the process of making up interlacing - is an integral factor in the design of fabrics.

## II. REVIEW OF THE KNOWN WORKS

The shape and background of the shoulder strap are changing, the size and shape of the stars, etc. Here it should be noted the work on the design of the epaulettes of such authors as Maramov ST, Akilova AA, Uzakova UR, Rakhimkhodzhaev SS. [1-7].

The variety of the pattern and the decoration of the epaulettes are especially revealed when using jacquard ribbons.

## III. NEW PRODUCTION WAY TAPES OF SPECIAL PURPOSE

Considering the shortcomings of the existing coding systems-the main disadvantage of which is the inadmissibility of jacquard weaving, a new coding system is proposed that takes into account the interlacing of the soil base and colored weft yarns. In the proposed new coding system, an exact argument is given for the appearance of the jacquard machine, on the sequence of used interlaces.

In the existing computer program "MüCAD" a new coding system "Palette of weaving interlacing" was introduced by the subroutine. The existing weaves are grouped together (based on the group of main weaves) and are indicated by the following methods: plain weave by the letter T (taffeta); satin, satin weave S; twill group- D.

For example: decoding of the code system NT 624 T 1 and NT 624 S8 1

HT - longitudinally cut tape-labels, shuttle-free rapier loom;

624 - total number of hooks;

T - ground - taffeta;

S8 - soil - 8-mite atlas;

1 is the number of labels in the interlacing rapport,

In order to create a drawing, you must have a so-called pattern footer:

- plan of working hooks;
- the name of the drawing;



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- palette weaving interlacing;
  - preliminary weaving of weave and color (BV).
- Plan BV are provided for up to 12 colors of weft yarns, including ground ducks.

The input menu allows a general overview of all the primary colors (P), each with a range of up to seven composite colors and weave patterns for the pattern, ground and back links, as well as the floating length and the shifted weave points.

For each basic and corresponding composite colors, we can individually change the weaving for the top, for the purl ties and for the ground.

It is possible to shift individual points of weaving at the upper and lower boundary of the part of the pattern (weaving the top) to the left or to the right.

Table 1 provides a preliminary sample for weaving the soil.

Table 1.  
Preliminary selection of ground interlaces

No.	Designation of the pre-selection	Name of the interlacing of the soil
1	BVT	Tafta
2	BVS5	5-inch satin (BVS5RE-5-titanium satin with the opposite ground S5RE-satin)
3	BVS8	8-mite atlas (BVS5RE-8-mite atlas with the opposite ground S8RE-satin)
4	BVS53	8-MI Atlas with additional points
5	BVPA	2-x main reps
6	BVK3	Sarge 2/1
7	BVK3N	Sarge ½

Weaving weaves in the plans for the preliminary selection of interlaces should not be confused with the other. Example: Weaving weave BVS5 does not match (not suitable) with BVS8 or BVT, etc. Two-jacquard ribbon with one base color and two colors of duck (table 2.).

After entering the weave data, a color pattern appears on the monitor. This "F-picture" will be saved and, if necessary, can be used for corrections, corrections.

The drawing for transfer to the loom, the so-called P-pattern, will be stored separately, with the help of the initial "A-5" command, by clicking on the frame [\* Save "P-design" ready for transfer to loom] \*) drawing ", ready for transfer to the loom) and naming the name of the drawing to be recorded.

Table 2.  
Two-jacquard ribbon

Plan of working hooks	KLK:352
Picture Name	KLKTEST
Palette of weaving weave	KLK
Pre-selection of weaving weave	BVLG (EL41,EL42,TL43)
Number of primary colors	1
Reading in the direction of the base	(the number of base colors along the entire width is equal to the coefficient of expansion)
Reading in the direction of the weft	2 (the number of colors of the weft is equal to the coefficient of expansion)



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Only this "P" - the drawing can be transferred to the loom by means of MULOAD].

Procedure:

Change the data in the following sequence, ending each change with [INTER]:

- a) Name of the plan of working hooks, class of drawing
- b) Name of the drawing caption: CAMHEAD (do not use other names for this purpose)
- c) Weaving palette
- d) Pre-selection of weaving
- f) number of primary colors (without soil)
- f) number of main threads per cm (for taffeta - 57)
- g) number of weft threads per cm (for taffeta - 25)
- h) Width and height of the sketch in mm.

- The position of the beginning of the pattern for scanning, measured from the start line

j) Click [Save] to complete, confirm this new "Camhead" drawing. Otherwise, the borrowed "Camhead" or drawing will be copied.

Width [step h)] is the actual width of the sketch in mm without taking into account the edges and the retaining warp yarns (yarns left and right > Work hook plan].

The MUCOMP 3 camera is designed for fast, highly accurate and extremely reliable scanning of color photographs, color drawings or sketches. This device allows you to write programs of drawings on the MUCOMP 3 system with a high degree of automation and with maximum performance.

After scanning, the camera shows all the colors of the standard BV plan. It is possible to add shade, mixed and double colors by selecting from the section.

The MUCOMP 3 T system serves to quickly and easily create drawing programs for electronic controlled jacquard machines, using sketches and draft drawings [59].

Features:

Creation of multicolored jacquard patterns on the basis of duck, up to 2688 hooks and 12 colors of duck.

The memory is 16 megabytes, expanding to 40 megabytes.

Graphic controller for 256 shades of color.

High CCD camera expandability (charge-coupled device) (up to 600 diopters) for reading color patterns up to 290 x 420 mm.

Storage devices and memory capacity:

- floppy disks (floppy disks) 3 ½; 1440 Kilobyte
- hard drive 3 ½; approximately 210 megabytes
- Optical discs; 2x300 megabytes.

Connector plugs for external (peripheral) equipment:

- Keyboards;
- 20 video monitors with an RGB signal (the signal of the primary colors of the image is red-green-blue - red-green-blue) (60 images per second).
- a graphic tablet 290 x 420 mm with a 5-button mouse.
- inkjet color printer, 300 diopters.

Options:

- operation of the computer network with up to 8 parallel stations
- integrated into a single unit VUDESIGNER c Corel Draw;
- connection ON LINE (system mode) with a separate station ARTWORK (photo original);
- equipment for programming foreign jacquard machines and cardboard-cutting machines.

Each document can be visualized, and changed on the screen by one or more specific dialogs. Textual specific documents are used to transform the project into a textile product ("Pdesign") and finally into a jacquard file that can be sent to a loom [60].

Each document can either be a "root" - a document (at the top of the hierarchy) or a "subdocument" and thus part of the "main" document.

Usually, all the textile information needed to convert a project into a jacquard file is contained in the sample plan, which is a sub-document for the project.



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One of the main conceptual differences between MüCAD and its predecessors, in which the MüCAD Müller system is copied, is Mücomp 3T, which interlaces in MüCAD, interlacing plans and palettes as copies of the original template files.

The text translation of the project is made on the basis of local copies (sub-documents), which makes it easy to transfer the complete project with all its textile information from one computer and the user to another, just passing the project document file. All the necessary information for textile translation is contained as sub-documents in the project document (sample plan, drawing plan, interlacing plan).

## IV. DEVELOPMENT OF A NEW SKETCH OF SPECIAL PURPOSE TAPES

Jacquard tapes of special purpose, developed on the machine Jakob Muller, are designed for shoulder straps of senior and junior officers and have the following semantic meaning of these patterns.

In Fig. 2.5 shows the samples of shoulder straps of senior officers. The design of the picture is presented in three color variations:

- Front - golden background
- Shirt - white background
- Everyday - wormwood

Senior officers are different from junior officers with two longitudinal distinctive bands, which according to the arms of the armed forces have their own color differences.

In the proposed new design program for special purpose ribbons, we proceeded from purely specific interpretations of meanings inherent in national and historical expressions, taking as a basis the era of Amir Timur.

The design composition of senior officers has the following semantic meaning:

- Straight lines are interpreted as the correctness and clarity of the chosen path;
- inscribed squares as honesty, mind and order of thought.

The square refers to solar signs, which symbolizes order, honesty, justice, wisdom and honor.

The square structure is used not only to denote the spatial properties of the universe, but also symbolizes the basic temporal coordinates:

- four parts of the day;

The composition presented for junior officers has the following semantic meaning: the circle personifies society, good, the country as a whole.

In the Timurid army, the circle was a guard against evil and unclean spirits, and three circles represented a confrontation. On the emblem of Amir Timur was a motif depicted in the form of three rings.

The rhombus as well as the square is a solar sign and carries the following semantic code:

- equality of all;
- purity and order of thought;
- the correct structure of society and the correctness of ideas.

## V. CONCLUSION

In combination with the circle, the rhombus can be treated as a mandala. Mandala is the sacral sign of society. Mandala refers to the number of geometric signs of a complex structure. The most characteristic scheme of the mandala is an outer circle with a square inscribed in it.

On the edges of the composition of epaulettes for junior officers there are sketches of cartouches. In the Timurid army, they were treated as knots of happiness. For the design of special purpose tape, a technological chain has been developed for the production of polyester jacquard ribbons for special purposes. The choice of raw materials is carried out taking into account the possibilities of jacquard equipment.

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