

Utilizing some Fabric Structure Factors of Gobelin fabrics in Obtaining new color effects

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• **Abstract:**

Textile designs are one of the most important means to attract the consumer and market of the textile product, and since the operational methods are based on experience and simulation without reference to accurate technical standards, where the implementation methods often simulate some imported designs without developing the operational methods and their suitability for performance Career.

Gobelin fabrics are one of the ancient textile methods, used in the production of upholstery and hanging fabrics , where the main purpose of the research is to developing innovative methods for designing Gobelin fabrics, where most of the gobelin designs execute in a stereotypical style that depends, as in the first experiment, which use three weft colors, but the second experiment use five weft colors and third experiment use six weft colors , which not used in the market and are implemented with innovative textile structures from the researcher's hypotheses by varying the number of colors and raw materials of the weft used , through the difference in the number of colors and type of weft materials used , to determine the effectiveness of the artistic and technical performance of each design method , which create competition in the design field quickly , to fit the positive requirements of production .

The main variables to methods and curriculum design innovative by the researcher to control their rates to determine the technical dimensional as follows: -

1. Variation in the number of weft colors used (3colors - 5 colors - 6 colors).
2. Type of weft materials used (cotton - polyester).

By this method, 6 samples were produced for one design suitable for use with Goblan fabrics. The samples were woven and the executive methods used in the implementation of the research samples were analyzed, and the best method was selected from them based on a questionnaire presented to specialists.

• **Key words:**

Gobelin Fabric - color effects for Gobelin fabrics - Gobelin weaves – wall Hangings

Introduction:

Jublin fabrics express directly the time period in which they exist, especially that textiles are present in daily life, whether this is represented in clothing or in furniture, to express the social and political conditions in which society lives. For example, to express the wealth and luxury of kings in different time periods, expensive threads and materials were used. The price, so raw materials such as silk, gold and silver threads were used to increase the value of the woven richness and beauty.

It is characterized by the production of designs that reflect expressive themes, ancient myths and landscapes. The term Gobelin was used in relation to (Jean Gobelin), one of the most famous textile merchants and dyers, who lived in France in the year 1450 AD.

Jublin fabrics are among the basic elements of upholstery fabrics and have special weave structures, where the design details appear on the surface of the woven by interlocking the warp and weft to obtain different mixing ratios, and thus infinite color gradations arising from the selection of the color of the warp and weft thread that intersects with it and the style of interlocking, to obtain the color and texture required to show the design, and since most of the methods used in the market use 3 weft colors as in the first experiment of the research, hence the idea of the research to try to obtain new color effects and textures using 5 colors and 6 weft colors to improve the aesthetic values in the design.

The research aims to add and develop new executive styles to the traditional styles, to obtain new aesthetic and color effects, and to achieve technical compatibility for jubelin fabrics in multiple uses.

The practical side of the research focused on two elements: (the first element) the difference in the number of weft colors used (3 colors - 5 colors - 6 colors), and (the second element) the quality of the weft materials used (cotton - polyester) so that 2 samples were carried out for each Color difference, so that the total number of samples carried out is 6 samples with different textures for each color group.

It was found that the design implemented with 6 weft colors and the polyester weft material is the highest in the aesthetic standard required in the design, and therefore it is more applicable in the Egyptian market. Trying to expand the designer's knowledge of the textile structures of the Jublin fabrics.

The design programs have helped in the production of artwork accurately and quickly, as it provides the manual and mental effort of the designer with the possibility of modification, change and the work of various color experiments easily and easily, as well as the ability to see the design in the form of an image similar to the final employment of the product.

Research Problem:

The research problem is determined by the adoption of the local executive methods of the Jublin fabrics on well-known stereotyped methods that, in turn, need renewal and innovation to contribute in their turn to highlighting the aesthetic effects.

Research Importance:

1. Enriching the artistic dimensions and effects of textile designs in Jublin fabrics.
2. Opening new local, regional and international markets for the Egyptian product of Jublin fabrics.

3. Enriching the textile library specialized in the fields of textile design and composition on this type of executive method.
4. Opening a new direction for the development of executive methods in the field of tissue structures.

Research Aims :

1. Adding and developing innovative executive methods to the traditional methods.
2. Obtaining new aesthetic and color effects to highlight artistic designs.
3. Achieving the technical and functional compatibility of the jubelin fabrics in multiple uses.

Research Hypotheses :

- 1- The different number of weft colors used (3 colors - 5 colors - 6 colors) will enrich the textile product of jubelin fabrics.
- 2- The difference in the quality of the weft materials used (cotton - polyester) will lead to obtaining different aesthetic variables for the jublin fabrics.

Research Methodology:

This research follows the experimental and analytical approach.

•Research Results:

After the theoretical and applied studies and the research experiments that have been carried out using innovative executive methods, the following results have been obtained:

Through this research, it was possible to obtain new color effects for the Jublin fabrics, so that it serves the designs used to appear in their best form.

- Color effects need to be visualized before starting the design process so that you can use them aesthetically within the design.
- The variety was made between cotton and polyester materials to suit all uses and levels in terms of cost.
- The number of weft colors used led to enriching the product with a number of different color effects, which must be compatible with each other to show the aesthetic dimension within the design.
- The Jublin method is one of the successful methods in implementing designs for textile pendants, adding aesthetic value to them and enriching the design of the pendant.

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