

Analysis and Prospect of Tufted Textiles in the Context of Modern Art

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Abstract: With the evolution of people's personalized needs and fashion, handmade tufted textiles have become increasingly popular in art design, and have won the favor of designers with their bright colors, vivid shapes and unique styles. In this paper, the development of tufting art is summarized, and its material characteristics, technology and modeling techniques are thoroughly interpreted. Combined with the cases of modern tufted art works at home and abroad, this paper analyzes the future development path, and provides a new idea and new path for the combination of contemporary folk handicraft technology, modern tufted development art creation and high-tech intelligent science and technology, which is expected to improve the inclusiveness and artistic and commercial value of tufted textiles in social life.

Keywords: Textile Design; Tufted; Arts and Crafts; Fiber Art

1. Introduction

The name tufting comes from English, meaning 'to decorate with bundles of fluff' and was originally called turf because of its appearance. This technology originated from the ancient European hand-made carpet embroidery, and has been applied to the production of tufted carpets through the combination of modern 3D textile technology.

Tufted carpet is gradually evolving into tufted art in the field of handmade textiles. Tufted art with rich materials, bright colors. Tufted art works spring up like bamboo shoots after a spring rain and integrate with traditional culture, giving people different feelings.

2. Tufted art production

2.1 Plus material

The props needed for hand-made tufting mainly include: tufting bracket, tufting cloth, tufting gun, wool ball, projector, watercolor paintbrush, scissors, carpet glue, self-latex, hot melt gun, hand-held vacuum cleaner, hair shaver, projector, etc.

2.2 Making process

After the preparation of tools and materials in the early stage, the production process of tufting art is as follows:

2.2.1 Pattern description

According to the design requirements, select the appropriate thickness of the tufted cloth fixed on the tufted shelf, by adjusting the distance around the tufted frame, to ensure a certain tension and better flatness of the tufted cloth surface. Then the pattern is projected onto the tufted cloth through a projector, and then the pattern wheel gallery is sketched out with a pen. For those who have good painting skills, they can draw the pattern directly.

2.2.2 Pattern painting and weaving

The tufted gun ends with a metal sheet against the cloth to ensure that the needle is inserted into the cloth, and the tufted gun is pushed through the yarn, and then the "gun weaving" is formally entered, i.e. the drawing and weaving (Figure 1). In the process of making, it is necessary to change the wool of corresponding color according to the selected pattern.



Figure 1 Pattern tufting (self-made by the author)

2.2.3 Tufting reinforcement and finishing

After drawing and weaving the pattern with the tufted gun, carefully remove the tufted cloth and apply an appropriate amount of white glue on the back of the tufted work to prevent the wool from falling off because it is not fixed properly. After painting, dry the tufted work with a hair dryer to ensure the integrity of the tufted work. Finally, attach the non-slip bottom and then seal the edge. Trim and finish the tufted works with a shaving device, and finally obtain the tufted works.

3. Creative decorative effect of tufted art

3.1 Decorative expression of tufted art in costume design

In the field of clothing, tufted art has been widely used. The aesthetics and artistry of decorative patterns in tufted art are more important, which is also the purpose of artistic expression of decorative patterns in clothing^[1](Pan Ying, 2017).

Josephine R, a foreign illustrator, skillfully integrates the tufting technique with bright visual colors. She makes the tufting process on the clothes vest to give the old clothes a second life. The simple treatment of this vest makes the clothes that she wanted to throw away lovely again. This vest perfectly combines tufting and painting, and presents ordinary tufting techniques in an unconventional way, making it a unique piece of work (Figure 2)^[2](Li Xianzu, 1993).



Figure 2 Tufted T-shirt(Pictures from the Internet)

The artist Sam C R brought the tufted fabric to the show, and created a visual feast of tufted fabric through a poetic space. The whole design was coordinated and unified, and the structure of the garment was displayed through the tufted fabric, bringing a unique dream(Figure 3)^[3-5](Zang Menglu, 2022).



Figure 3 Tufted fashion(Pictures from the Internet)

3.2 Decorative expression of tufted art in interior design

With the rapid development of modern society, people's demand for living conditions is more personalized, and the way and method of interior decoration design are also changed.

Portuguese textile artist Vanessa B combines handicrafts and recyclable materials into tufted carpets and tapestries for unique and luxurious interiors, recycling discarded yarn. Her tufted wall hangings and tufted carpets are Marine gardens inspired by the colors, shapes and textures of coral reefs (Figure4)^[6,7](Yang Nan, Jin Xinling, 2020、Hua Rui, 2019).The ultimate goal of her tufted art works

is to raise people's awareness of the scarcity of the earth's resources, especially in aquatic environments. She hopes to provide a clearer and brighter understanding of the ecological road through this kind of tufted art expression. The integration of fiber tufted art cells adds new colors to modern interior design.



Application of tufting in interior design (Pictures from the Internet)

4. The expression form and practicability of tufting in fiber art

4.1 Tufting 2D plane appearance

2D plane expression is to show 2D patterns through the technique of tufting. The role of patterns is to express their inner essence to us through the external image of things. The design of 2D plane elements is integrated into the tufting art, which brings us a new visual experience. Argentine artist Alexandra K, for example, drew on traditional tufting techniques passed down in her family with fellow artist Dries V N for a serene Midsummer Night's Dream, a spring-summer collection. The whole show made us feel the Argentine landscape, which was recreated on a huge carpet through abstract painting. The tufted 2D plane manifestation pays more attention to the internal fusion of the graphic picture.

4.2 Tufting 2.5D plane manifestation

The 2.5D plane representation form refers to the perspective principle image of a three-dimensional object from the perspective of a plane, consisting of three faces: the front face, the facing surface, and the illuminated surface. It is currently a very popular form of artistic expression in graphic design. These tufted art works express 3D effects through changes in color, lines, and structural levels based on the form of flat objects. They need to design images of the light and dark, back, and front faces before creating tufted art. In the production and design of 2.5D works, it is necessary to understand the basic knowledge of sketch, light and shadow relationship, projection effect, and overall color scheme, so as to clearly express the picture relationship.

4.3 Tufting 3D three-dimensional expression form

The 3D form of tufted art can better reflect its shaping ability and rich fiber texture, showing a different form of artistic expression, which can make people feel relaxed and happy in the process of creative production. Tufted work performance in the form of 3D, on the one hand, by superposition of 2D work, reducing processing means such as form of 3D effect, as shown in figure, can be combined by multiple 2D graphic works into basic cube, such as single shoulder tufting package to improve on the basis of the artistic effect to show its practicability, also can undertake manual processing after drawing.

5. Prospect of tufted art

5.1 Pattern personalization

Tufted art design can be more personality, from the existing network diagram to the drawing, from the standard pattern to the DIY design, is the future tufted forms of art can be performance, as tufting technique and digital technology has increased, stitch rows of fine design, the design of any style design can use tufting art performance.

5.2 Material diversification

Tufting craft art can be more diverse in materials, not only including yarn categories, such as polypropylene yarn, flannel, pearl yarn, etc. Villus height difference, yarn texture, can combine several patterns of change, the combination of tufted finished product with different materials to do, such as woven piece fixed on coated with acrylic paint on the drawing board to make composite media creation, when not limited tufted fabrics, but see it as an element, the application scope of tufted art will open more.

5.3. Functional diversification

Tufted works such as carpets, cushions and murals can also be combined with other products in structure after the completion of

tufted works on the premise of artistic performance. In home use scenarios, tufted works can be combined with bags, hanging chairs and sofas. In clothing, it can also be combined with more modern, more futuristic clothing design. The development of art works is bound to be combined with practicality, so the combination of tufted works with function, service and interaction is the inevitable trend of the development of art life.

Conclusion

With the development of time, fiber art has become more and more diversified. From the numerous tufted art works, its application scope is gradually expanded. Artists and craftsmen practitioners play art cells, constantly updated to create expressive, infectious fiber tufting art, through vision and touch, form and content to the viewer bring brand-new aesthetic experience, inspire love of tufted practical adornment art, hand made the infinite fun, will dig deeper into its unique artistic form, Fully display its cultural value, artistic value and economic value.

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