Research on the Integration and Innovation of Traditional Lacquer Art and Modern Interior Design

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Abstract. Lacquer element is an important material and cultural form produced in the course of our country's historical development. Lacquer element always plays an important role in the ancient society with low productivity level, and in the modern society with highly developed material and spiritual civilization. Especially the integration with modern interior design technology not only shows the connotation and function of lacquer art elements, inherits and develops our traditional culture, but also improves the quality and taste of interior design. It can be seen that the integration of lacquer elements and modern interior design technology produces enormous effects. Based on this, the integration of lacquer art elements and modern interior design technology is analyzed and studied in this paper. The historical inheritance of lacquer art elements and the application of lacquer art elements in modern interior design technology are emphatically discussed. At the same time, the mechanism of the integration of lacquer art elements and modern interior design technology is analyzed, and the development prospect of lacquer art elements in the field of modern interior design is prospected.

Introduction

Lacquer art is a skill handed down from ancient times in China. It originated from the Hemudu culture more than 7000 years ago [1]. Lacquer art, which has broken through the meaning of lacquerware and lacquer worker, is a comprehensive art form with distinct definition and closely related to other disciplines. It is an art category with broad prospects for development. In other words, lacquer art is the artistic design and creation with lacquer as the main medium [2, 3]. It is defined by the main media of design and creation, such as ceramics, fiber art, metal art, oil painting and ink painting. Thus, the definition of lacquer art is broad. Excellent interior design works pay attention to the use and collocation of materials [4]. Although the diversification of decorative materials provides a broad stage for designers, the constant creation of new materials is an eternal topic of interior design. Throughout the development history of lacquer art in the whole world, we find that lacquer art has been fully applied in architecture, decoration materials, furniture design, interior furnishings and daily necessities design, among which decoration materials, furniture design and interior furnishings are important components of interior design.

With the continuous improvement of people's living standards, Interior design, a new technology, is also seeking a way to integrate traditional culture and add color to modern interior design in a more novel way, which also brings new opportunities for the development of lacquer art elements [5,6]. Lacquer art element, a traditional material and cultural form, plays an important role in modern interior design technology with its unique charm. The integration of the two elements is not only the strong return of traditional culture, but also the compatibility of modern culture [7]. Therefore, modern interior designers should continue to innovate the application forms of lacquer elements, which can be more perfectly integrated with modern interior design and promote the common prosperity of traditional culture and modern culture [8]. Modern interior design is also constantly developing. More and more designers choose the industry of interior design. How to stand out from the crowd requires designers to have the design concept of discovering elements, broadening ideas and innovating content. Lacquer art culture, as a historical legacy, has rich connotation and unique

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charm. The integration of lacquer art culture as a new entry point and interior design will provide designers with many new design ideas and bring room for interior design development.

The Integration of Lacquer Elements and Modern Interior Design Technology

After a long historical period of development, lacquer art culture, due to its wide range of materials, gradually presents a diversified cultural expression, and has also been greatly enhanced in terms of expression. In addition, advanced science and technology make the paint more stable and durable, reduce the impact of environmental changes on the paint, not only can maintain the original color for a long time, but also easy to clean. This is in line with the requirements of interior design technology, and therefore promotes the integration of lacquer culture and modern interior design technology. The main forms of integration between the two are as follows:

Application of lacquer elements in wood materials.

Whether it is traditional interior design or modern interior design, wood materials (such as window lattices, beams and columns) often appear which divide the wall into more "fragmentary" phenomena. In order to achieve a unified effect of the overall interior design, in the past, art works were usually used to decorate the damaged parts, but still unable to achieve the best decorative effect. And the development of lacquer art culture has produced a more decorative form, namely lacquer murals. Lacquer mural is a decorative form of lacquer art, which takes lacquer board as the main body and paints and dyes on the lacquer board. Lacquer panels can adjust the size to match the wall, and do not need additional frames. Painting can be done on the lacquer panels according to the overall style of interior design, so that it can be perfectly integrated with interior design. This integrated design effect can not only cover up the damaged wall, but also achieve a more harmonious and unified design effect. Lacquer mural is a decoration method which combines the practicability and aesthetics of lacquer art culture. On the basis of remedying the defects, the level of interior design technology is further improved. Lacquer murals are usually used in modern interior design techniques such as hotels and restaurants. As shown in Figure 1.



Figure. 1 Application of lacquer elements in wood materials

Application of Lacquer Elements in Furniture Manufacturing.

Modern lacquer furniture is the integration of traditional elements and modern elements. The main structure of the whole furniture retains the shape and charm of traditional furniture. On this basis, modern lacquer elements are integrated into it, and changes in lines, shapes and patterns are made. Appropriate lacquer colors are selected to make the modern furniture present more novel and unique charm. The integration of traditional elements and modern elements in furniture enables the whole set of furniture to be unified with the overall interior design style and design concept. In the modern interior design process of Chinese style, lacquer furniture is usually placed in the bedroom and study to satisfy people's use and appreciation of furniture. In addition, there are many tea tables, shoe cabinets, bars, tables and chairs and other furniture are also designed and manufactured by the principle of lacquer art, which improves the grade and effect of the overall interior design.

Screen Design Based on Lacquer Elements.

Screens, an important part of interior design, were designed at the beginning to satisfy the need of separating indoor space and confidentiality. They also symbolized people's desire for auspiciousness, wealth and Yonggu. With the continuous improvement of people's living standards, the screen based on lacquer art elements also has new functions, namely aesthetic and decorative. Screen, as a common element in interior design, is not only of great practical value, but also of great decorative value. The screen with lacquer art as the keynote basically adopts the form of wood carving, and

injects aesthetic value into the screen with exquisite patterns and colors. Placed in the interior, it can decorate and divide the interior space. Especially in the modern interior design with Chinese style, the screen is the key point in the overall design. It combines the traditional culture elements with the modern culture elements by lacquer art elements. It not only embodies the strong inclusive characteristics of culture, but also shows the popular sense of modern interior design technology. As shown in Figure 2. Therefore, in the production of screen, fully play the role of lacquer art, design a unified screen style with the overall interior design process, can better express the function of lacquer art, and then enhance the overall interior design effect.



Figure. 2 Application of lacquer screen in interior decoration

The Application of Lacquer Art as Cultural Color.

Lacquer painting has a long history of development. Its rich cultural connotation and artistic value were once an important part of the material life of the working people in ancient China. Today, we introduce lacquer painting into interior design, which is not only practical and beautiful, but also a reflection of traditional culture in essence. The expression of lacquer painting in the interior space can be artifacts or partitions. The layout of furniture and furnishings conveys the flavor of traditional culture, which is of great value in displaying national culture and meeting the spiritual and cultural needs. The inclusiveness and uniqueness of lacquer painting make it have a great living space in interior design. Whether in terms of cultural form or in terms of space and aesthetic function, it has important value.

Mechanisms of Integration of Lacquer Elements and Modern Interior Design

The reason why lacquer art elements can be integrated with modern interior design technology is that the aesthetic sense of lacquer art meets the needs of social aesthetic development, besides the need for inheritance and development of traditional culture. The beauty of lacquer art is mainly embodied in the beauty of material, creation process and form of expression, etc. Combined with the beauty of interior design process, a harmonious overall beauty is formed.

First of all, lacquer is a transparent liquid extracted from lacquer tree, which is widely used in design because of its transparent and transparent. This form of beauty enables it to integrate with a variety of materials in life and make a wide range of materials from life. The material beauty of lacquer art is one of the important reasons for its integration with modern interior design technology.

Secondly, the beauty of the lacquer art creation process is the concentrated reflection of the cultural appreciation value and aesthetic value of lacquer art. From board making, mosaic to carving, filling, painting, to polishing and polishing, lacquer art is processed and produced layer by layer, which makes ordinary materials become the carrier of artistic and cultural expression, and improves the overall level and decorative effect of interior design technology.

Thirdly, formal beauty is the external form of expression of lacquer culture connotation, mainly including lacquer painting and three-dimensional lacquer art. It is the simultaneous display of Arts and crafts and painting. This is another mechanism that promotes the integration of lacquer elements with modern interior design. In addition, modern interior design also has a high aesthetic value. In the process of long-term development of history, architects design according to the nature of the building, the environment and people's aesthetic needs, not only to meet the living conditions, but also to have aesthetic and ornamental value. In order to achieve this goal, lacquer elements need to be connected. Therefore, lacquer elements and modern interior design have been integrated.

The Possibility of Lacquer Art as Decoration Material

The application of lacquer art in modern interior design still remains in the form of furniture and furnishings, failing to give full play to its advantages and widely serve interior design, while the development of lacquer art in other parts of the world is fundamentally different from that in China.

From the 17th to 19th centuries, the walls and ceilings of Isfahan and other cities, palaces and private houses were painted with lacquered wood boards, which became decorative boards for interior decoration at that time. These materials were beautiful in style. From Persia to Turkey to Syria, private houses with painted walls and ceilings are everywhere. In Aleppo and Damascus, Syria, the living room is decorated with lacquer panels. The European lacquer industry first appeared in Venice, Italy. Lacquer artists widely used this technology in interior decoration. At that time, this decoration style was the most fashionable and popular. There were no exceptions to doors and windows, window cabinets, wall panels, smallpox, porches and furniture. Many palaces, villas and houses were decorated with lacquer art, and a complete set of furniture and utensils were prepared. Lacquer art was applied to interior design in an all-round way. Lacquer art is also widely used in Korea, with originality. As early as the Three Kingdoms Period in Korea, lacquer art was applied to architectural decoration, decorating temples and monasteries with lacquer technology. A considerable part of the lacquerware industry in the late Li Dynasty was all kinds of lacquer furniture.

Materials.

The materials of lacquer art are roughly divided into nine categories: coatings, accessories, embryos, brushes, cutting tools, solvents, tools and so on. Lacquers are divided into natural lacquers and chemical synthetic lacquers. Natural lacquers include large lacquer, ripe lacquer, black Polish Lacquer and cashew nut lacquer. Chemical synthetic paint includes polyurethane paint, propionic acid resin paint, and polyphenol paint and so on. Natural coatings are superior to all existing coatings in terms of corrosion resistance, temperature difference and conjunctive strength. Cashew nut paint is cheap and transparent. Advantages of polyurethane paint: 1. Hard and wear-resistant film; 2. Chemical corrosion resistance; 3. Bright and full film; 4. Strong adhesion 5. It can be mixed with a variety of coatings. Polyphenol lacquers have high permeability, fast drying, and high stability after immersion or moisture. Re-oxygenated resin paint has the following advantages: 1. It has high adhesion and adhesion to various materials; 2. It has good toughness and flexibility, flexibility and tension resistance several times higher than general coatings; 3. It has good resistance to various chemicals, acid-base solvents and water, especially alkali resistance; 4. It has good color retention and transparent color. With the development of modern industrial technology, blastocyst materials have also made great progress. Wood is the most widely used material in all lacquer works. Modern lacquer paintings are mostly made of plywood. Lacquer works can be roughly divided into two categories: three-dimensional and plane. Wood matrix is widely used. Commonly used high-quality timber Nanmu, camphor wood, pear, mahogany, ginkgo and so on, such as Ming furniture lacquerware. Commonly used soft materials are birch, basswood and specially treated wood. Because of its soft texture, it can be carved. Lacquer painting board is now mostly made of wood plywood, Indonesia, the Philippines and other Southeast plywood, such as Fraxinus mandshurica, Eucalyptus Salix and so on, with smooth surface and high durability. Stereoscopic lacquer works are made of germ mud, glass fiber reinforced plastics, calcium plastics, metal germ plates and clipping materials. For example, calcium sculpture is the easiest way to make lacquer works.

Baking Technology.

Lacquer art has unique aesthetic character, not only from the characteristics of large lacquer, but also from other materials such as gold, silver, lead, tin, eggshell, shell, stone and wood chips. In addition to silver and Zhu, there are also special materials such as stone yellow, titanium white, titanium blue, titanium green, etc. Inlaying, quoting, spreading, covering, grinding and other special means, which constitute the special visual effect of lacquer art surface, gathering painting, sculpture and so on. In one, it is rich and elegant, pure and bright, with natural interesting, complicated and confusing artistic style. Especially, the beauty of natural lacquer is deep, restrained and full of implication. The texture of virtual and solid is not as interesting as that of brushes, and it is difficult

for any paint to reach. The diversity of lacquer techniques creates rich texture effect and enriches the material beauty of interior decoration. For example, varnishing in lacquer techniques refers to a method of making texture, which is made by imprinting texture of leaves, millet, and paper and so on. It appears to be natural and interesting because of its accidental appearance. The layers of inlaid jade are clear and exquisite; the color of gold lacquer is gorgeous and brilliant; the lines of carving and filling are smooth and magnificent; the knives are sharp and gray, and the charm is rich... The unique technology of lacquer art can not only add rich texture to the interior, but also make up for the lack of single texture of decorative materials and create special visual effects.

Conclusion

Due to the current depression of lacquer art market in China, the development of lacquer art industry has entered a stagnant state. Many researchers are trying to find an effective way to develop lacquer art market prospects in order to continuously promote the development of lacquer art industry and make it play a greater role in modern interior design technology. On the one hand, it promotes the inheritance and development of traditional cultural elements in modern society. On the other hand, it injects vigor into the development of modern culture and presents diversified forms of modern interior design technology. Only in this way can we promote the further development and innovation of lacquer art culture. In the continuous development and evolution of social needs, lacquer art culture, an ancient cultural form, can meet people's material and spiritual needs in a modern way.

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