Research on Cloisonne Wire Cutting Technology Innovation and Artistic Value

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Abstract: Cloisonne technique enjoys a high reputation both at home and abroad. It is famous for its profound and solemn artistic effect, fine and clear pattern lines, luxury and elegance. It was included in the national intangible Cultural Heritage list in 2006. For better inheritance, it is the bounden historical responsibility of Chinese people to inherit cloisonne techniques and promote cloisonne culture. With the continuous development of economy and society and the deepening of cultural exchanges, Cloisonne wire cutting technology has attracted more and more attention from the whole society. Based on the historical background, production techniques and artistic characteristics of cloisonne wire cutting technology, this paper discusses the innovation and artistic value of cloisonne wire cutting technology, focuses on the improvement of its materials, the innovation of production techniques and the diversification of pattern design, and puts forward the idea of focusing on innovation and development in inheritance. This paper introduces the application of cloisonne wire cutting technology in modern design and art field and its artistic value. Finally, through the comprehensive research of relevant literature and the field investigation of experts, the future development trend of Jingtai LAN wire cutting technology is discussed.

1. The origin of Cloisonne wire cutting process

Cloisonne is a kind of traditional Chinese craft, which originated in the Yuan Dynasty and has a history of nearly 600 years. Cloisonne craft is renowned for its fine, gorgeous and colorful. As one of the representatives of traditional Chinese crafts, cloisonne bears the historical mark of Chinese culture and the spiritual connotation of national art. It is a part of Chinese culture and has important status and significance.

The process of wire cutting is the most complicated and the most technical part in cloisonne production. The process requires the processing of precious metals into exquisite silk threads, and according to the design requirements to complete several steps such as burning, printing, coloring, matching, and assembling these parts into finished products. The wire cutting process requires strict artistic skills and manual skills, which is the key link to reflect the technical difficulty and artistic value of the production process.

However, Cloisonne wire cutting process also faces many problems and challenges in the face of modern industrialization and manufacturing challenges[1]. For example, the traditional cloisonne wire cutting process is time consuming, labor consuming, high cost, and the loss of workers and the process inheritance are also facing severe difficulties. In the face of these problems and challenges, Cloisonne wire cutting processes need to be innovated and improved in order to better adapt to the needs of the modern market and ensure the continuation of artistic traditions and technical heritage.

2. Cloisonne wire cutting process innovation

The development of cloisonne glaze has created the precedent of Chinese classical handicraft products, and the development of modern material science has provided a more extensive space for the innovation of cloisonne craft. For the modern environment and the needs of consumers, Cloisonne wire cutting process needs to use some high-quality new materials, such as environmentally friendly materials. Among them, the use of green surface materials can effectively reduce the pollution problem in the process; The use of new materials with high hardness, high toughness and high temperature and high pressure tolerance has a considerable effect on the preservation and display of

handicrafts, and can promote the further improvement of Cloisonne handicrafts in design and grade.

With the rapid development of modern science and technology, Cloisonne wire cutting process is also in continuous progress and innovation. Among them, CAD and 3D printing technology is widely used in Cloisonne production, providing a strong support for the upgrade of the process.

CAD technology is through the way of computer-aided design, the use of 3D modeling for cloisonne design and production. In the past, every process of cloisonne had to be made by hand, which was inefficient and prone to errors. The introduction of CAD technology can greatly improve the production efficiency, while the accuracy will be higher. In Cloisonne production, CAD technology binds the design and production together, which can perfectly restore the designer's idea. In addition, CAD technology can adjust and modify designs more quickly, improving work efficiency and design accuracy.

3D printing technology is a digital model file is transferred to a special printer, and the raw material is superimposed through the printing process of the printer. In the Cloisonne wire cutting process, 3D printing technology can be applied to the production of digital models, and the models can be carved in the studio after being made, so that the model production of Cloisonne wire cutting process becomes more accurate and the accuracy is greatly improved. Moreover, by reading the digital model before engraving, the production time can be greatly saved, and the aesthetic principles are combined with machine processing, which not only ensures the excellent manual characteristics of the wire cutting process, but also improves the industrial production efficiency.

In the production process, the traditional wire cutting technology and enamel technology has become more and more difficult to meet people's needs. Cloisonne wire cutting process pays attention to the concept of innovative development in the inheritance, which promotes the development of the production process. In the production process, we try to use machine forming, which improves the production efficiency, and the application of numerical control technology increases the diversity of design and the scale of innovation results. In the wire-cutting technology, dielectric, laser and computer technology are also added, so as to achieve rapid automation of creation and production, and enhance the better response of handicrafts to the market and consumers. With the introduction of these technologies, Cloisonne wire cutting process has undergone great changes and innovations in production efficiency, manufacturing quality and production methods[2].

There are also many typical cases of innovative Jingtai blue wire cutting process at home and abroad, which reflect the combination of traditional Jingtai blue technology and modern science and technology, providing new ideas and new ways for the production of Jingtai blue products. Domestically, for example, the "Modern Cloisonne" project explores the application of 3D printing in cloisonne production, successfully combining traditional cloisonne processes with modern digital technologies. Internationally, the French "Shenlong Automobile" uses the wire cutting process to make automotive interior materials, and the cloisonne process has been successfully applied to the modern automobile industry.

These innovations and practices fully demonstrate the value and aesthetic significance of cloisonne craft, and integrate traditional culture with modern science and technology, expand the application scope and market demand of cloisonne craft, promote the progress and development of cloisonne craft art and technology, and also provide new ideas and new ways for the protection, inheritance and innovation of cloisonne craft.

3. The artistic value of cloisonne wire cutting process

Cloisonne wire cutting technology is a traditional technology with a long history and unique skills. From the perspective of art history, it can be seen that Cloisonne wire cutting technology has many characteristics and artistic values that have a great impact on art.

First of all, Cloisonne wire cutting process has a unique aesthetic value. Wire cutting process through the combination and collage of different colors of metal wire, to create bright colors, rich layers, three-dimensional objects, in the color, shape, technology and other aspects of high artistic value. Cloisonne wire cutting is often used to express the texture, shape, volume, light and color of objects, making it an indispensable artwork in modern home decoration.

Secondly, Cloisonne wire cutting is a kind of inherited and creative art form. Cloisonne wire cutting technology continues to innovate and evolve, and continues to develop in inheritance to explore its potential and influence. Creativity is reflected in the artist's imagination, inspiration and imagination ability through a high degree of manual skills and practice into excellent works of art, promoting the development of cloisin wire cutting technology in the field of art and culture.

Finally, Cloisonne wire cutting technology has a good performance and market value in the modern art market. In the modern art market, Cloisonne wire cutting process has become a hot market with its unique artistic value, and new designs and works are constantly introduced. Cloisonne wire cutting process also has a certain collection and investment value[3]. With the improvement of people's cultural heritage and the continuous appreciation of artworks, cloisonne craft has become a cultural field of concern. As a precious cultural heritage and artwork, Jingtai Blue wire cutting process not only has ornamental value, but also can be used as a collection and investment channel, becoming the first choice for people to collect and invest. Its metallic luster and unique color collocation have attracted the attention of more and more art collectors and market investors. At the same time, Cloisonne wire cutting technology has been enduring, inherited and developed so far, has become one of the essence of Chinese cultural tradition, and is also popular in the world.

In summary, Cloisonne wire cutting process has high artistic value and aesthetic connotation. It inherits the profound humanistic spirit contained in Chinese culture, but also gives art new life and soul, so that it maintains a stable market performance and high market value in the modern art market.

4. Protection and inheritance of Cloisonne wire cutting process

Cloisonne wire cutting technology, as one of the traditional technologies in China, is faced with many difficulties in its protection and inheritance. First of all, due to the complex production process of Cloisonne wire cutting process and high technical threshold, it is difficult to attract more inheritors to join. Secondly, the visibility of Cloisonne wire cutting process in the market is relatively low, and it is difficult to popularize and promote. In addition, the inheritance process also involves capital, technology, materials, design and other issues. All these factors make the protection and inheritance of Cloisonne wire cutting process face great challenges[4].

However, the inheritance of Cloisonne wire cutting technology is facing no small problems and challenges. On the one hand, due to the acceleration of people's pace of life and the lack of artistic talents, the inheritance of Jingtai blue technology is more and more difficult. Even if there are successors or aspiring people who have the courage to see its importance, but if few. On the other hand, as a precious cultural heritage, the protection of cloisonne wire cutting technology has become extremely important. The establishment of an evaluation system, the development of detailed collective protection planning and security measures, the strengthening of the relevant management system, and the integration of ongoing Cloisonne resources and display facilities will be one of the main tasks to promote the preservation of Cloisonne wire-cutting technology[5]. How should we reasonably protect and inherit cloisonne wire cutting process? First of all, we should increase the publicity and promotion of Jingtai blue wire cutting process, so that more people understand this traditional process and cultural connotation. Secondly, more young people should be encouraged to learn and inherit cloisonne wire cutting craft, and traditional craftsmen should be invited to hold wire cutting craft training courses across the country to attract more young people to learn this skill. At the same time, it can also break the dilemma of high traditional production cost, long process time and difficult maintenance through new technological means.

In terms of inheritance, it is possible to establish a Cloisonne wire cutting process inheritance base and a professional inheritance team, cultivate more excellent wire cutting craftsmen, and promote their skills to the market. In addition, we should pay attention to the innovation of Cloisonne wire cutting process, introduce modern design concepts and scientific and technological means, combine traditional processes with modern fashion, launch more contemporary and creative Cloisonne wire cutting products, and improve the competitiveness and market share of products.

In short, Cloisonne wire cutting technology is a traditional cultural heritage of our country, and it is a heavy responsibility to protect and inherit it. By strengthening publicity and promotion, breaking

the traditional production problems, establishing a professional inheritance team, highlighting the development of the market and other measures, we can better protect and inherit the Cloisonne wire cutting process, so that this traditional process is more widely recognized and inherited, and finally get better development in modern society.

5. Conclusion

The comprehensive research results show that Cloisonne wire cutting technology is not only a precious intangible cultural heritage in China, but also a carrier of history and culture, with profound cultural connotation and unique artistic value. The innovation and artistic value of Cloisonne wire cutting has become an important aspect of its conservation and inheritance.

First of all, Cloisonne wire cutting process has been in an innovative state in terms of production technology and design concept. In recent years, by drawing inspiration from tradition and introducing modern technology, many craftsmen have created many novel and practical Cloisonne wire cutting products. Secondly, Cloisonne wire cutting products are not only real goods, but also elegant works of art, many of which have reached the top level in terms of artistic value and quality.

In the future, with the increasing popularity of mass culture, more people will pay attention to and like Cloisonne wire cutting process, thus promoting its development. In the future, Cloisonne wire cutting products will be more diversified and more colorful, which will be loved by consumers. At the same time, with the continuous change of people's aesthetic concepts, Cloisonne wire cutting technology will gradually integrate into modern science and technology while preserving traditional skills to achieve better inheritance and development.

Finally, we should attach great importance to the protection and inheritance of cloisonne wire cutting technology. Cloisonne wire cutting technology represents an important part of Chinese traditional culture, while protecting this precious cultural heritage, but also to inherit its heritage and essence. We should take a series of measures to promote the inheritance of cloisonne wire cutting process, including increasing the publicity and promotion of cloisonne wire cutting process, strengthening the training of traditional craft talents, and promoting more young people to join the production of cloisonne wire cutting process, and should also pay attention to the combination of tradition and innovation to inject new impetus into the development of cloisonne wire cutting process.

To sum up, Cloisonne wire cutting process is one of China's precious cultural heritage, in the path of inheritance and protection, we need to pay more efforts and support, with people's common efforts to jointly inherit and carry forward this precious traditional cultural heritage.

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