

Research on innovative application of silver material in modern jewelry design

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Abstract. Based on the understanding of are used, the jewelry material, the method of modeling semantics is applied to know more about the application of traditional materials and modern materials in the jewelry design. The related design principle of the innovative combination of the silver material, traditional material and modern material in the jewelry design was analyzed, and the status quo of the modern silver jewelry design was solved, which is monotonous in the combination materials, old-fashioned in pattern and conservative in the creation style. Hence, the innovative application of materials, innovative expression of patterns, and the creation style that integrates culture and art was realized. The development trend of silver jewelry design was explored, which can provide more direction for the development of silver jewelry in the future.

1 Introduction

Jewelry can not only decorate our clothes, bring out our temperament, at the same time, it convey the feelings and attitudes of contemporary people. Silver material is deeply loved by people because of its own unique properties. The history of wearing silver ornaments goes back to ancient times, "Silver culture" is almost accompanied by the material civilization of mankind. However, more creations of silver jewellery mostly remain in a few ethnic minorities such as the Miao silver ornaments, the Dai silver ornaments, etc. as well as some handwork workshops. Most of the silver ornaments still dare not to break the traditional style of creation, the combination of a single material, pattern tradition, so that the silver jewelry in the creation is difficult to have a new breakthrough. For the contemporary jewellery design, the contemporary characteristics and cultural connotations must be given on a traditional basis. The traditional patterns need to be redesigned, the traditional crafts need to be innovated again, and the new jewelry design and processing materials also need to be excavated. If we can combine silver materials with different materials and seek inspiration from our lives and emotions, we will push silverware to a diverse, ecological and creative jewelry design field.

2 Understanding of silver material

2.1 The Origin of Silver ornaments

The history of love of silver jewelry goes back to ancient times. In ancient times, silver jewelry not only demonstrated its identity and status, but also preserved

its value and was a legacy that could be left to future generations. Not only that, in many ethnic minority areas in our country, the silver jewelry of Miao, Yi and other regions also entrusted them with their admiration and awe of good things, silver also can pray for the protection of the gods. In modern times, people are also aware of the health benefits of silver jewelry. "Silver as ornaments" which is a common cultural phenomenon in the world, along with the material civilization of mankind from beginning to end.

2.2 Characteristics of silver material

Silver has stable chemical properties, high thermal conductivity and good electrical conductivity. It is difficult to be corroded by chemicals. It is soft and ductile. Its reflectivity is extremely high, reaching more than 99%. Silver material is not only good and cheap, and silver ornaments can also play a certain health effect. The toxic and bactericidal effects have also made silver jewelry very popular. Make silver decoration always with its unique quaint, elegant amorous feelings, Show a unique status in today's respected personal, and stylish society!

3 Jewelry material

3.1 Traditional jewelry material

Traditional jewelry materials, such as gold, silver, copper, jade, precious stones. It is determined by the value of traditional jewelry. Since ancient times, people have been fond of gold and silver jewelry. Gold and silver jewelry can not only show identity and status, but

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also preserve the value of the family can be left to future generations.

3.2 Modern jewelry material

As the younger generation of consumers needs to express their individuality and unique appearance. The change of jewelry design based on aesthetics and innovation has caused a fresh vitality. Do not pursue luxury, do not seek permanent preservation of value has become a leading consumer power. With different ideas, this makes jewelry concept and material innovation over and over again. For example, plastic, paper rubber, wood, ceramic acrylic, leather and other daily materials have great plasticity and potential power, and are loved and recognized by the younger generation.

4 Innovative application of silver ornaments based on styling semantics

Styling semantics is a study of the meaning of product language. By studying the symbolic characteristics of the form of artificial objects in the use situation, which make the design of the product have a specific connotation. When designing silver with traditional materials and modern materials, we should give full consideration to the influence of modeling semantics on patterns, materials and creative styles.

4.1 Innovative design of silver materials with traditional materials

Compared with the weight of precious metal and precious stones in traditional jewelry design, the contemporary jewelry design is superior to the complexity of structure, the balance of weight and body, and the concept contained. The famous jewelry designer Hanna Hedman's works are inspired by human weaknesses, the dark side of the human world, death, nature and stories. She believes that good, serious, and disturbing things can make a strong contrast, reflecting a special sense of beauty. This series of jewelry uses copper and silver oxide as the main materials, and trying to inject these materials into their own souls. At the same time, she also prefers the traditional jewelry making process, it is clearly visible that the traditional techniques of cutting or drilling in jewelry production. Making a piece of jewelry is like creating a story, each part is made independently, and gradually evolved into a whole. In the works of Hannah Herdman, there are various elements of rich artistic atmosphere, cathartic display characteristics, colorful dreams, and functional requirements.



Figure 1. Artistic Jewelry by Hanna Hedman.

Karl Fritsch also loves making jewelry from traditional materials, most of his works are made of traditional materials such as silver, iron and emerald and so on. He pursued the state of natural. When he was creating, didn't expect the result of the production to be. Instead, it captures the most aesthetically pleasing state of the moment in the production process. His work is often abstract which he thinks this is the perfect work. This will be the best performance of jewelry art.

4.2 Innovative design of silver materials with modern materials

Breaking the shackles of traditional jewelry design materials, the use of materials becomes more active. Making modern jewelry appear more tactile, interesting and personality. The variety of new materials also means an endless space of possibilities and imagination. When making jewelry selections, Iris Bodemer pays special attention to material must be able to express ideas. She boldly uses a combination of new materials such as meteorites, pyrites, horns, wool, corals, beech wood and silver materials. She believes that these common materials from around can better reflect the cognition and love of life.

Maria Cristina Bellucci often uses silver when she makes jewelry. She like to look at things differently in daily life. Here is a series of works that she uses silver, colored pencils, and black sandalwood as the main materials, separation of objects with special emotions from the environment in daily life. Colored pencils are rich in color. Combining, cutting, and chamfering jewelry will show unique patterns. Patterns created by this method not only convey lively emotions, but also give unique and rich patterns to jewelry. Create a completely new perspective by reshaping or reinventing it. At this time, a magnificent jewelry will be presented to everyone.



Figure 2. Artistic Jewelry by Maria Cristina Bellucci.

5 Innovative Application of Silver material in Modern Jewelry Design

The beauty in the depths of the "Natural Dialogue" is the time for solidification. This series of jewelry is mainly made of 999 silver, phosphorite, and natural malachite natural turquoise. The most traditional jewelry manufacturing techniques are used, such as casting, inlaying, and engraving and so on. This series of jewelry escaped the traditional complex patterns, by applying a reasonable combination of natural stones of different depths, to show the unique texture of this series of jewelry. At the same time, it does not lose its unique elegance and simplicity. This series of jewelry is inspired by the hard and natural shape of the original ore which is linking beauty to heaven, and it is like a gift from nature. With the characteristics of a natural form of nature, jewelry is infused with the beauty of the inspiration of all things in nature to maintain the crudest original form of ore, in order to express the beauty of nature and paying tribute to life. Through this series of jewelry as if into the exploration of nature, feeling its texture, touching its temperature, listening to its feelings which can make a busy person come to a conversation with nature. "Natural Dialogue" This series of jewelry innovations in materials and performance techniques which is a good interpretation of the integration of jewelry culture and art in jewelry design.



Figure 3. "Natural Dialogue" picture from Chu independent design studio.

6 Conclusion

Jewelry has become the carrier of people's personal life attitude in daily life. Rejuvenation of creative designers, increasing attention to environmental protection, and the pursuit of freedom of life has caused the demand for jewelry has shifted from purely material to spiritual. The history of love of silver jewelry is even more ancient. Not only is the unique property of the silver material itself, but also is that silverware is already a representative of jewelry culture. Traditional silver ornaments have been difficult to meet people's consumption needs. Dare to break the traditional creative style of silverware, the innovative application of materials and the innovative expression of patterns, can better meet the market demand of consumers. The design of any product is not merely the design of a piece of useful instrument or machinery; instead, it must show various beautiful ideals and interests in the life activities of humankind. The method of styling semantics provides more directions for the development of silver ornaments and makes the related design of silver ornaments becomes a real design field which combines culture and art.

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