

Innovative Techniques in Artistic Glass Forming Using Collage Art

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Abstract:

Design represents the best visual expression of the essence of things. It is the process of creating something meaningful that relates to a set of human needs. Artistic glass, in its various fields, has several artistic elements that lead to the creation of diverse and innovative ideas for the shaping and implementation of artistic glass in its different forms. A glass designer must master the use of tools to express the relationship between shape and function. Specifically, the artistic glass designer must excel in this field, which is one of the most important areas of glass shaping, such as meeting human needs in the surrounding environment by employing glass in interior spaces, for example (art plates, pendants, glass furniture units, etc.). Glass is a crucial element in interior design and furniture, and its use leads to the integration of the elements of interior space, enhancing its aesthetics. Additionally, it can be employed to meet personal human needs, such as in the field of glass jewelry, where artistic glass can also be used to fulfill personal aesthetic needs through decorative purposes (glass jewelry) and its accessories, aiming to achieve compatibility and harmony between the pieces and the anatomical positions of wear.

The research problem lies in the need to demonstrate the role of collage art as an influential form in the design and shaping of artistic glass with innovative formulations. The aim of the research is to shed light on the most important aesthetic characteristics of collage art through an analytical study of certain modern and contemporary design and artistic trends and to benefit from them in the fields of artistic glass design. Additionally, the research aims to create diverse forms of artistic glass by benefiting from the thought and philosophy of collage art using various technical approaches.

The significance of the research is determined by its premise that the activation of different technical methods of reshaping glass, especially the technique of "fusing between layers of glass" (inclusion), in producing artistic glass results in innovative structural formulations and aesthetic effects for design ideas derived from employing the aesthetic properties of collage art. Thus, the research follows a descriptive-experimental methodology and focuses on the study of collage art from the 20th century until the present and its application in the design and shaping of artistic glass for interior design complements (such as glass plates and pendants), as well as in the design of glass jewelry (e.g., pendants).

The research identified several innovative design ideas based on the aesthetic values and techniques of collage art. Various artistic glass design ideas were created, particularly using the "fusing between glass layers" technique, to produce innovative and diverse designs. The sustainability concept was achieved through the reuse and recycling of materials, such as glass fragments, which were combined with other materials and used between glass layers.

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