



Technical treatments of Pre-added metal surfaces as an experimental starting point for creating metallic jewelry

Submitted by

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Summary

"Technical treatments for pre-added metal surfaces as a pilot project for creating metal jewelry"

- **Introduction:**

- The research aims to uncover the best experimental approaches for exploiting the technical components of metal surfaces, as well as providing a pre-existing formative basis for creating metal jewelry
- The research aims to identify an antidote to artistic communication in the field of metalworking, contributing to the integration and efficiency of art education parameters.

This is achieved in light of the study followed, which comprises six chapters, as follows:

First chapter (Introduction to the Research)

This chapter introduces the research by presenting the background and problem, its hypothesis, objectives, importance, and limitations, followed by the research methodology, which is divided into:

- Theoretical Framework

The research follows the descriptive and analytical approach in developing its theoretical framework as follows:

- An overview of the metal addition technique.
- An overview of metal materials, including their components, properties, types, and forms.
- An overview of metal performance techniques, including their classification, definition, and application methods.
- An analytical study of selected metalwork executed using the metal addition technique.

- Applied Framework

The research follows a descriptive-analytical approach and a quasi-experimental approach to develop its applied framework as follows:

-Experimental practices for treating pre-added metal surfaces using appropriate metallurgical techniques, according to the following experimental approaches:

- **First :The first approach: simple technical processing.**

- Technical processing of pre-added metal material forms (such as wires, strips, flats, metal diameter, etc.) onto the metal surface using only one technology.

- **Second:The second approach: complex technical processing.**

Technical treatments for previously added metal material forms (such as wires, strips, flats, metal diameter, etc.) on the metal surface using more than one metal technology.

- Third :The third approach: complex technical processing

-Technical processing of previously added metal materials (such as wires, strips, flats, metal diameters, etc.) onto the metal surface using technical processing based on a phased process of addition, processing, addition, processing, etc.

- Investing in the structural dimensions achieved by technical processing of previously added metal surfaces to create metal jewelry.

chapter Two (Mineral Addition)

- This chapter includes a study of the concept of mineral addition, methods of mineral addition, types of mineral addition (direct, pre-additive), mineral ores, their definition, and their properties.

Chapter Three (Technical Treatments for Pre-Added Metal Surfaces)

This chapter includes a study of technical treatments for pre-added metal surfaces, their definition, and the most important technical treatments for added metal materials that achieve tactile value, color value, and overlay value.

Chapter Four (Analysis of Selected Metalworks Executed Using the Metal Addition Technique)

This chapter includes an analytical study of selected metalworks from artists' works according to the following classification:

- a) Analysis of Selected Metalworks Executed Using Direct Addition
- b) Analysis of Selected Metalworks Executed Using Pre-Addition

Chapter Five (Experimental Practices)

In this chapter, the researcher conducted a series of experimental practices that highlight and illustrate how to leverage the aesthetic values of technical treatments for previously added metal surfaces, using three experimental approaches: simple technical treatment, composite technical treatment, and complex technical treatment.

Chapter Six (Practical Applications)

This chapter contains the practical applications of the research, including an analysis of the stages of the research experiment, in which the researcher presented a sequential presentation of her own applications. Finally, the most important research findings and recommendations are reviewed.

Abstract

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This research includes a brief definition of the concept of mineral addition and its types (direct - prior).

This research includes a brief definition of the concept of mineral addition and its types (direct - prior), and the most important technical treatments for pre-added metal surfaces that achieve texture and color value. And metal materials and their properties. The researcher described and analyzed some selections of metal artifacts from the artists' works. The research concludes with a set of practices and applications of the study with the aim of reaching formulations based on technical treatments of previously added metal surfaces in the most appropriate ways for handmade shaping. Using pre-adding, cutting, "reusing" methods, bending, rolling, acid etching, filing, welding, polishing and so on to achieve metal jewelry To enrich the field of metal works at the Faculty of Specific Education, Finally, the most important results and proposed recommendations were presented.