

The Role of the Sculptor Cisar in malleable zing Direct Bronze Ore^{*}

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Abstract

The Works of the sculptor Cisar which came by the end of the twentieth century achieved a great artistic heritage for France and the whole world in art metallic works. Expanding in his great works, he innovated a new technology in last thirty years of the twentieth century to treat his metallic achievements of bronze. He could directly express through monuments of highly aesthetic and financial value, made of industrial wastes. The researcher represents a distinguished analysis of such works beside the technology and sophisticated machines used in this field, as shown in the description, analysis and pictured. examples of his achievements in bronze art works welded using the new technology.

The research includes presentation of the sculptor Cesar's experiments regarding molten steel, iron and cast iron in addition to other sculpture achievements.

Key words: sculpture, technology, bronze, Cisar, duplication and magnification machine.

^{*} For the paper in Arabic see pages (283-296)

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