The application of 3D printing technology in mass production of furniture

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Abstract:
The modern manufacture of furniture, as distinct from its design, is a major mass-production industry in world. It is very largely a 20th-century industry; its development having awaited the growth of a mass consumer market as well as the development of the mass-production technique; now new technology is gaining traction that may change the world. It’s one of the key enablers for sustainable economic growth, creating competitiveness and long-term jobs. As an Advanced Manufacturing technology, AM has been identified as a key priority for manufacturing. This is because AM, often referred to with the more specific term 3D-Printing, is an innovative technology with the potential to transform the global manufacturing industry and European economies. This paper presents the initial development of furniture mass production by using 3d printing technology in order to develop alternative technologies at low cost, for the freedom of designers and producers of furniture in the use of different materials, and there is no limit to the complexity of the design. Hence the importance of this research to shed light on the reciprocal relationship between the mother and her female child and the extent of the Girls’ link and attachment to their mothers, through innovate fabric designs of ladies clothes and their formats for the children. We cannot ignore the world fashion trends and the importance of guide with it to make a printing product with an Egyptian identity and at the same time fits the latest fashion trends in taste, color, shape and quality. And on the other side, and in technological terms, the product has to be environmentally friendly and safe to the young consumer (children).

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