

Title (en)

METHOD AND SYSTEM FOR AUTHENTICATING THE COMPUTER-AIDED MANUFACTURING OF A THREE-DIMENSIONAL PART

Title (de)

VERFAHREN UND SYSTEM ZUR AUTHENTIFIZIERUNG DER RECHNERGESTÜTZTEN HERSTELLUNG EINES DREIDIMENSIONALEN TEILS

Title (fr)

PROCÉDÉ ET SYSTÈME D'AUTHENTIFICATION DE FABRICATION ASSISTÉE PAR ORDINATEUR DE PIÈCE TRIDIMENSIONNELLE

Publication

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Application

**EP 19733827 A 20190702**

Priority

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Abstract (en)

[origin: WO2020007867A1] The invention relates to a method and system for authenticating the computer-aided manufacturing of a three-dimensional part by a manufacturing device, using at least one predetermined manufacturing material, said three-dimensional part to be manufactured being defined by a three-dimensional model obtained by computer-aided design and shown in a predetermined file format, said manufacturing device being controlled for manufacturing from said three-dimensional model and from a comprehensive set of manufacturing parameters. The method comprises the steps of: - generating (46) a cryptographic key (K') according to the parameter values of a non-empty parameter subset (SP') of the comprehensive set of manufacturing parameters, comprising at least one parameter of a set of configuration parameters of the manufacturing device, or at least one parameter of a set of parameters relating to the manufacturing method or at least one parameter of a set of characteristic parameters of the manufacturing material, - detecting (48) a watermark in said three-dimensional model by applying a predetermined watermark detection algorithm which is initialised with the generated cryptographic key (K'), - comparing (52) the detected watermark to an expected watermark, and authenticating the computer-aided manufacturing of said three-dimensional part in case of a positive comparison.

IPC 8 full level

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Citation (search report)

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