

Title (en)

METHOD FOR MANUFACTURING A 6061 ALUMINIUM ALLOY PART BY ADDITIVE MANUFACTURING

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES 6061-ALUMINIUMLEGIERUNGSTEILS DURCH GENERATIVE FERTIGUNG

Title (fr)

PROCÉDÉ DE FABRICATION D'UNE PIÈCE EN ALLIAGE D'ALUMINIUM 6061 PAR FABRICATION ADDITIVE

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Application

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Abstract (en)

[origin: WO2023275461A1] The invention relates to a method for manufacturing a 6061 aluminium alloy part, which is chemically modified by adding zirconium, comprising the following steps: i) printing a 6061 aluminium alloy part by additive manufacturing, in particular by laser powder bed fusion, from a powder comprising 6061 aluminium alloy particles and zirconium, wherein the zirconium contributes for at least 0.7% by weight relative to the total weight of the aluminium alloy, ii) performing a heat treatment on the printed aluminium alloy part, the heat treatment being performed at a temperature of at least 350°C.

IPC 8 full level

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