

Title (en)

METHOD FOR MANUFACTURING A PART MADE OF A MONOCRYSTALLINE SUPERALLOY

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES TEILS AUS EINER MONOKRISTALLINEN SUPERLEGIERUNG

Title (fr)

PROCÉDÉ DE FABRICATION D'UNE PIÈCE EN SUPERALLIAGE MONOCRISTALLIN

Publication

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Application

EP 20734082 A 20200626

Priority

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Abstract (en)

[origin: WO2020260645A1] The invention concerns a method for manufacturing an aircraft part, the part comprising a monocrystalline nickel-based superalloy substrate, the method consecutively implementing the steps of moulding the part at a moulding temperature greater than the melting temperature of the superalloy, and cooling the part, such that the monocrystalline superalloy has a γ phase and a γ' phase, solution heat treatment of the part at a first temperature between the solvus temperature of the γ' phase and the melting temperature of the superalloy, homogenising the crystalline structure of the part, cooling the part to ambient temperature, first tempering and second tempering.

IPC 8 full level

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