Title (en)

METHOD FOR PRODUCING A PIECE MADE FROM A SUPERALLOY BASED ON NICKEL AND CORRESPONDING PIECE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES TEILS AUS EINER SUPERLEGIERUNG AUF BASIS VON NICKEL UND ENTSPRECHENDES TEIL

Title (fr)

PROCEDE DE FABRICATION D'UNE PIECE EN SUPERALLIAGE A BASE DE NICKEL, ET PIECE AINSI OBTENUE

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Application

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Abstract (en)

[origin: WO2010089516A2] The invention relates to a method for producing a blank for a piece made from a superalloy based on Ni, wherein an alloy is produced and thermal treatments are carried out, characterised in that: said superalloy contains at least 2.5% of the total as Nb and Ta, a thermal treatment is carried out in a number of steps, a first step between 850 and 1,0000C for at least 20 minutes to precipitate the phase d on the grain joints, a second step at a temperature above that of the first step, permitting a partial dissolution of the phase d obtained in the first step, an aging treatment comprising a third step and optionally one or more supplementary steps at a temperature mower than that of the first step and which permit a precipitation of the hardening phases ?' and ?". The invention further relates to a corresponding piece.

IPC 8 full level

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