

Title (en)

METHOD FOR PRODUCING A TURBINE BLADE BY MEANS OF ELECTRON BEAM MELTING

Title (de)

VERFAHREN ZUM FERTIGEN EINER TURBINENSCHAUFEL MITTELS ELEKTRONENSTRAHLSCHMELZEN

Title (fr)

PROCÉDÉ DE FABRICATION D'UNE AUBE DE TURBINE PAR FUSION PAR FAISCEAU D'ÉLECTRONS

Publication

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Application

EP 16719389 A 20160427

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Abstract (en)

[origin: WO2016198210A1] The invention relates to a method for producing a turbine blade (1) with a blade root portion (2), a blade aerofoil portion (3), adjoining the blade root portion (2), and a blade tip portion (4), adjoining the blade aerofoil portion (3), wherein the blade root portion (2), the blade aerofoil portion (3) and the blade tip portion (4) are connected to one another in a material-bonding manner, and wherein at least one cavity (5), serving as a cooling channel, extends through the blade root portion (2) and the blade aerofoil portion (3), characterized in that at least the blade aerofoil portion (3) is produced layer by layer by using an EMB process, and in that, after removing caked-on powder material from the at least one cavity (5), the blade tip portion (4) is produced by using some other production technology.

IPC 8 full level

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