

Title (en)

METHOD FOR PRODUCING HIGH-TEMPERATURE RESISTANT JET ENGINE COMPONENT

Title (de)

VERFAHREN ZUR HERSTELLUNG VON HOCHTEMPERATURBESTÄNDIGEN TRIEBWERKSBAUTEILEN

Title (fr)

PROCÉDÉ POUR PRODUIRE DES ÉLÉMENTS STRUCTURAUX DE SYSTÈME D'ENTRAÎNEMENT À HAUTE RÉSISTANCE THERMIQUE

Publication

EP 2643114 B1 20141001 (DE)

Application

EP 11793368 A 20111118

Priority

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- EP 2011070438 W 20111118

Abstract (en)

[origin: WO2012069373A1] For the near net shape manufacture of geometrically complex, high temperature resistant jet engine components that consist of an intermetallic phase a low-melting metallic phase which is present in a molten state or in a temperature range close to the molten state is mixed with a high-melting metallic phase which is present as a metal powder and the mixture is mechanically worked by subjecting it to shearing and kneading forces and heated in the process and its viscosity reduced. In a subsequent injection molding process the substantially near net shape jet engine component is shaped and optionally mechanically finished and is then subjected to a heat treatment to produce an intermetallic phase.

IPC 8 full level

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CPC (source: EP US)

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