

Title (en)

RMC-Defined tip blowing slots for turbine blades

Title (de)

RMC-definierte Spitzenblasungsschlitze für Turbinenschaufeln

Title (fr)

Fentes de soufflage à pointe défini par RMC pour pales de turbine

Publication

EP 1927414 A3 20080730 (EN)

Application

EP 07254584 A 20071126

Priority

US 60659806 A 20061130

Abstract (en)

[origin: EP1927414A2] A process for forming an airfoil portion (42) of a turbine engine component, such as a turbine blade, is described. The process comprises the steps of placing a ceramic core (14) having a configuration of a passageway (15) to be formed in the airfoil portion (42) within a mold (80), attaching a refractory metal core element (10) to the ceramic core (14) to stabilize a tip region (12) of the ceramic core (14), and casting the airfoil portion (42).

IPC 8 full level

B22C 9/10 (2006.01); **F01D 5/18** (2006.01)

CPC (source: EP US)

B22C 9/04 (2013.01 - EP US); **B22C 9/103** (2013.01 - EP US); **F01D 5/147** (2013.01 - EP US); **F01D 5/187** (2013.01 - EP US); **F05D 2230/211** (2013.01 - EP US); **F05D 2300/13** (2013.01 - EP US); **Y10T 29/49337** (2015.01 - EP US)

Citation (search report)

- [X] EP 1543896 A2 20050622 - UNITED TECHNOLOGIES CORP [US]
- [XP] EP 1772209 A2 20070411 - UNITED TECHNOLOGIES CORP [US]
- [X] EP 1445424 A2 20040811 - UNITED TECHNOLOGIES CORP [US]
- [E] EP 1878874 A2 20080116 - UNITED TECHNOLOGIES CORP [US]
- [A] US 2005274478 A1 20051215 - VERNER CARL R [US], et al
- [AP] EP 1857199 A1 20071121 - UNITED TECHNOLOGIES CORP [US]

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Designated extension state (EPC)

AL BA HR MK RS

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