

Title (en)  
Trubine blade casting method

Title (de)  
Verfahren zum Gießen von Turbinenschaufel

Title (fr)  
Procédé de coulage d'aube de turbine

Publication  
**EP 1923152 A1 20080521 (EN)**

Application  
**EP 07254456 A 20071114**

Priority  
US 60041606 A 20061114

Abstract (en)  
In the castings of a turbine element, a sheet casting core (180) is assembled to a feedcore (182). The sheet casting core (180) and feedcore (182) are placed in a die (210,212,214). A sacrificial pattern material is molded over the sheet casting core (180) and feedcore (182) to form a pattern including an airfoil. The sheet casting core (180) extends from at or adjacent a trailing edge of the airfoil. The sheet casting core (180) has a first array of open areas and a second array of portions interspersed with the open areas. A first portion of the die (210) has a third array of projections contacting the second array.

IPC 8 full level  
**B22C 7/02** (2006.01); **B22C 9/04** (2006.01); **B22C 9/10** (2006.01)

CPC (source: EP US)  
**B22C 7/02** (2013.01 - 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); **Y10T 29/49622** (2015.01 - EP US)

Citation (search report)

- [X] EP 1306147 A1 20030502 - UNITED TECHNOLOGIES CORP [US]
- [X] EP 1715139 A2 20061025 - UNITED TECHNOLOGIES CORP [US]
- [T] EP 1600230 A1 20051130 - UNITED TECHNOLOGIES CORP [US]
- [T] EP 1652601 A2 20060503 - UNITED TECHNOLOGIES CORP [US]

Cited by  
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Designated contracting state (EPC)  
DE GB

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**EP 1923152 A1 20080521**; **EP 1923152 B1 20120104**; US 2008110024 A1 20080515; US 2012055647 A1 20120308

DOCDB simple family (application)  
**EP 07254456 A 20071114**; US 201113293675 A 20111110; US 60041606 A 20061114