

Title (en)
Turbine blade

Title (de)
Turbinenschaufel

Title (fr)
Aube de turbine

Publication
EP 1355041 B1 20070509 (DE)

Application
EP 03006497 A 20030321

Priority
DE 10217390 A 20020418

Abstract (en)
[origin: EP1355041A2] The turbine blade (1) has a blade section (13) and a platform (10) between which is a transition (19) with an outer contour shape. The turbine blade is at least partially hollow inside with an inner contour shape (31) which conforms to the outer contour shape of the transition in such a way that to achieve an improved cooling effect in the transition area a uniform blade wall thickness (22) exists. The transition is constructed to radially encompass the radial axis (4) of the turbine blade.

IPC 8 full level
F01D 5/18 (2006.01); **F01D 5/14** (2006.01)

CPC (source: EP US)
F01D 5/147 (2013.01 - EP US); **F01D 5/18** (2013.01 - EP US); **F05D 2240/80** (2013.01 - EP US)

Cited by
US7467922B2; WO2007012590A1; EP3112589A1; WO2017005484A1; US10301944B2

Designated contracting state (EPC)
CH DE ES FR GB IT LI

DOCDB simple family (publication)
EP 1355041 A2 20031022; EP 1355041 A3 20050406; EP 1355041 B1 20070509; CN 100346058 C 20071031; CN 1451848 A 20031029; DE 10217390 A1 20031030; DE 50307214 D1 20070621; ES 2283670 T3 20071101; JP 2003314203 A 20031106; US 2005106011 A1 20050519; US 6979173 B2 20051227

DOCDB simple family (application)
EP 03006497 A 20030321; CN 03122552 A 20030418; DE 10217390 A 20020418; DE 50307214 T 20030321; ES 03006497 T 20030321; JP 2003112397 A 20030417; US 41816003 A 20030418