

Title (en)  
ROTOR BLADE AND TURBOMACHINE COMPRISING A ROTOR BLADE

Title (de)  
LAUFSCHAUFEL UND STRÖMUNGSMASCHINE MIT LAUFSCHAUFEL

Title (fr)  
AUBE ET TURBOMACHINE POURVUE D'UNE AUBE

Publication  
**EP 2304189 A2 20110406 (DE)**

Application  
**EP 09771998 A 20090624**

Priority  
• DE 2009000870 W 20090624  
• DE 102008031780 A 20080704

Abstract (en)  
[origin: WO2010000228A2] A rotor blade (1) for a flow engine, especially a steam turbine, comprises a pinned root (2) having a first tab (3) and two second tabs (4) which are arranged at both sides of the first tab in the axial direction (a), the first and the second tabs having a collar (5) in the axial direction on axial sides (3.i, 4.i) facing each other in such a manner that the tabs have a radially outer first section (3.1, 4.1) and a radially inner second section (3.2, 4.2) the axial extension of which (bF3) is shorter than that (bF1, bF2) of the outer first section, based on an axial overall width (b) between axial sides (4.a) of the two second tabs (4) facing away from each other, the radial height (hF1 / b) of the first, radially outer section being in the range of 0.39 and 0.45, especially between 0.40 and 0.44, and the radial height (hF2 / b) of the second, radially inner section being in the range of 0.40 and 0.46, especially between 0.41 and 0.45.

IPC 8 full level  
**F01D 5/30** (2006.01)

CPC (source: EP US)  
**F01D 5/3023** (2013.01 - EP US); **F01D 5/3053** (2013.01 - EP US); **F05D 2220/31** (2013.01 - EP US)

Citation (search report)  
See references of WO 2010000228A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**DE 102008031780 A1 20100107**; CN 102084091 A 20110601; CN 102084091 B 20160302; EP 2304189 A2 20110406; EP 2304189 B1 20161116; JP 2011526339 A 20111006; US 2011110786 A1 20110512; US 8974187 B2 20150310; WO 2010000228 A2 20100107; WO 2010000228 A3 20101229

DOCDB simple family (application)  
**DE 102008031780 A 20080704**; CN 200980127003 A 20090624; DE 2009000870 W 20090624; EP 09771998 A 20090624; JP 2011515092 A 20090624; US 200913002616 A 20090624