

Title (en)  
Rotor blade for an axial flow turbomachine

Title (de)  
Laufschaufel für eine axial durchströmbare Turbomaschine

Title (fr)  
Aube de rotor pour une turbomachine à flux axial

Publication  
**EP 2282010 A1 20110209 (DE)**

Application  
**EP 09008226 A 20090623**

Priority  
EP 09008226 A 20090623

Abstract (en)  
The blade (10) has a platform (14) with a dovetail-shaped blade base (16) that includes two opposing side walls (20, 22). The walls diverge from the Platform to a blade base lower side (18). A longitudinal axis of the rotor blade is arranged perpendicular to a platform surface in a region of a connection between a curved shovel blade (12) and the platform. The walls are curved along an extension between the platform and the lower side in same direction, such that blade base-center line (24) is curved in corresponding direction and is centrally arranged between the walls.

Abstract (de)  
Die Erfindung betrifft eine Laufschaufel (10) für eine axial durchströmbare Turbomaschine, vorzugsweise Turbine, bei der zur Verringerung der mechanischen Belastung im Schaufelfuß (16) und der diesen haltenden Wände (30, 32) eines Rotors die zwei einander gegenüberliegenden Seitenwände (20, 22) des Schaufelfußes (16) entlang ihrer Erstreckung zwischen Plattform (14) und Schaufelfußunterseite (18) stetig gewölbt sind.

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

CPC (source: EP US)  
**F01D 5/3007** (2013.01 - EP US)

Citation (search report)

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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)  
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**EP 2010058508 W 20100617**; CN 201080028162 A 20100617; EP 09008226 A 20090623; EP 10725691 A 20100617; JP 2012516650 A 20100617; US 201013378453 A 20100617