

Title (en)

Turbine blade with cooling air baffle

Title (de)

Turbinenschaufel mit Kühlluftleiteinrichtung

Title (fr)

Aube pour turbine comportant un déflecteur d'air de refroidissement

Publication

EP 1251243 B1 20050907 (FR)

Application

EP 02290964 A 20020417

Priority

FR 0105289 A 20010419

Abstract (en)

[origin: EP1251243A1] The turbine blade (11), made with a root (13) that fits into a socket (14) of a disc (12) with internal air cooling, has a deflector (20) on the blade root comprising one or more fins to channel the air circulating in the lower part of the socket to regulate the air flow towards the intake (15). The deflector can be made as part of the blade, or a separate component attached to the root of the blade and having an access port (21) for the air intake in the form of a calibrated hole. The deflector fins can lie perpendicular or at an oblique angle to the general axis of the blade.

IPC 1-7

F01D 5/08; F01D 5/18; F01D 5/30

IPC 8 full level

F01D 5/08 (2006.01); **F01D 5/18** (2006.01); **F01D 5/30** (2006.01); **F02C 7/18** (2006.01)

CPC (source: EP US)

F01D 5/081 (2013.01 - EP US); **F01D 5/18** (2013.01 - EP US); **F01D 5/3007** (2013.01 - EP US)

Cited by

EP2436879A3; EP3093433A1; CN106224011A; EP1574670A3; FR2858829A1; EP1508670A3; US6974306B2; US8807942B2; US10094228B2; US7204675B2; WO2005012695A1; EP1987903B1; EP1987903B2

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