

Title (en)

Turbine blade with a cut-back at the root of the blade

Title (de)

Turbinenschaufel mit einem Hinterschnitt am Schaufelfuss

Title (fr)

AUBE DE TURBINE AVEC UNE PARTIE DECOUPÉE AU PIED DE L'AUBE

Publication

EP 1612372 B1 20141008 (EN)

Application

EP 04103117 A 20040701

Priority

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Abstract (en)

[origin: EP1612372A1] A turbine blade (1) for a steam or gas turbine comprises a trailing edge (5) that is shaped having a cut-back (10) in one or both the end-regions near the blade tip (3) and blade platform (6). The end-region or end-regions with a cut-back (10) are twisted with respect to the mid-region (9) of the blade. The end-region (8b) near the blade platform (6) is additionally leaned in the direction perpendicular to the chord of the blade where the pressure side (32) is leaned toward the platform (6). In a turbine with blades according to this invention a reduced amount of secondary vortex flows develop.

IPC 8 full level

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CPC (source: EP)

F01D 5/141 (2013.01); **F01D 5/143** (2013.01); **F01D 5/145** (2013.01)

Cited by

WO2020249914A1; JP2008291741A; EP2221454A1; EP2713008A1; US11629599B2; US10669858B2; FR3097262A1; CN114080489A; WO2017195782A1; US11566530B2

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